

FIG. 1

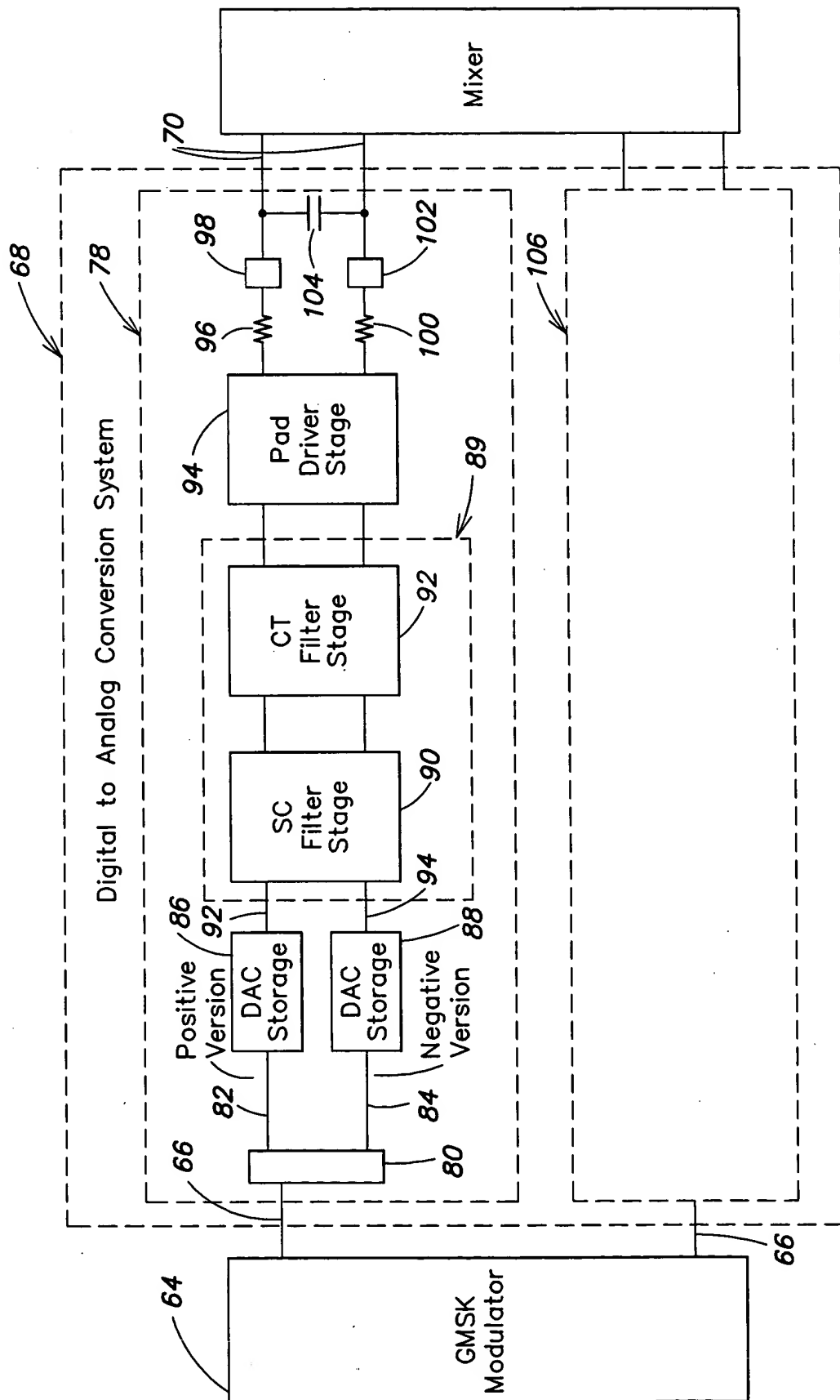


FIG. 2

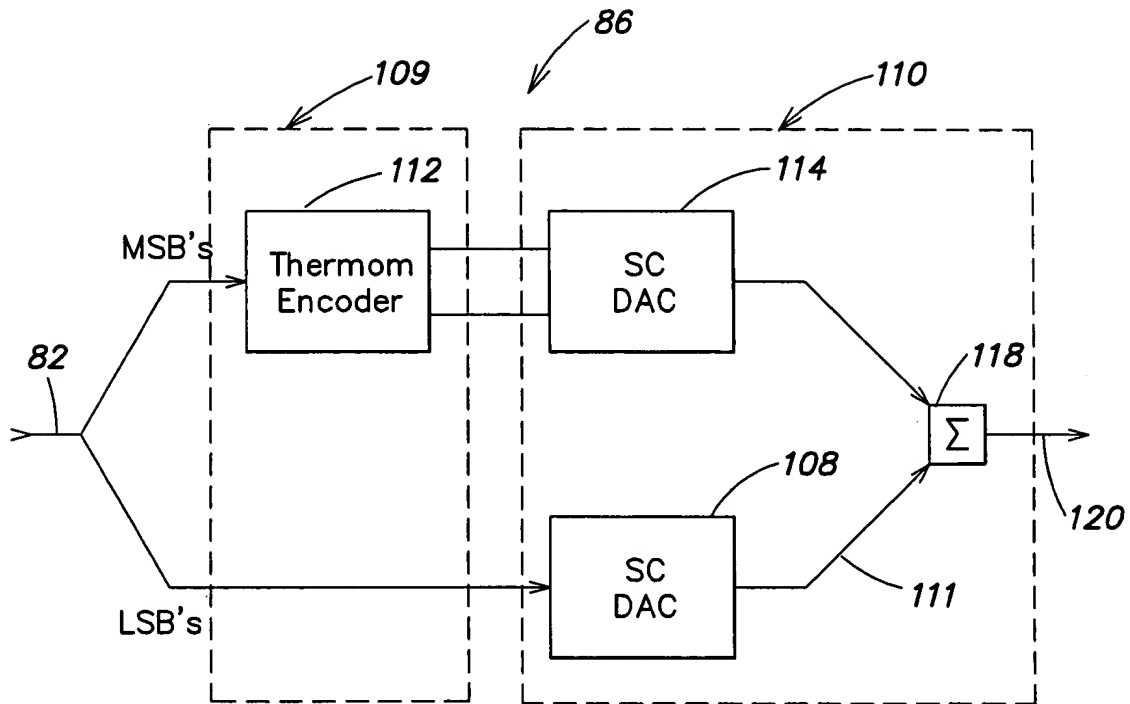


FIG. 3

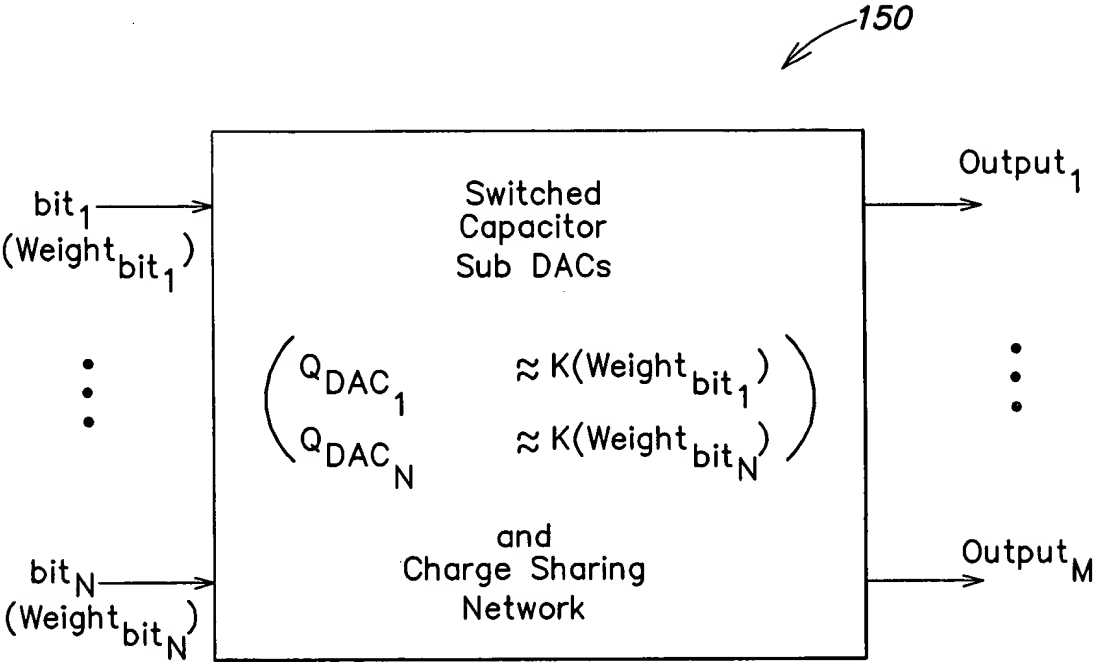


FIG. 4

FIG. 5

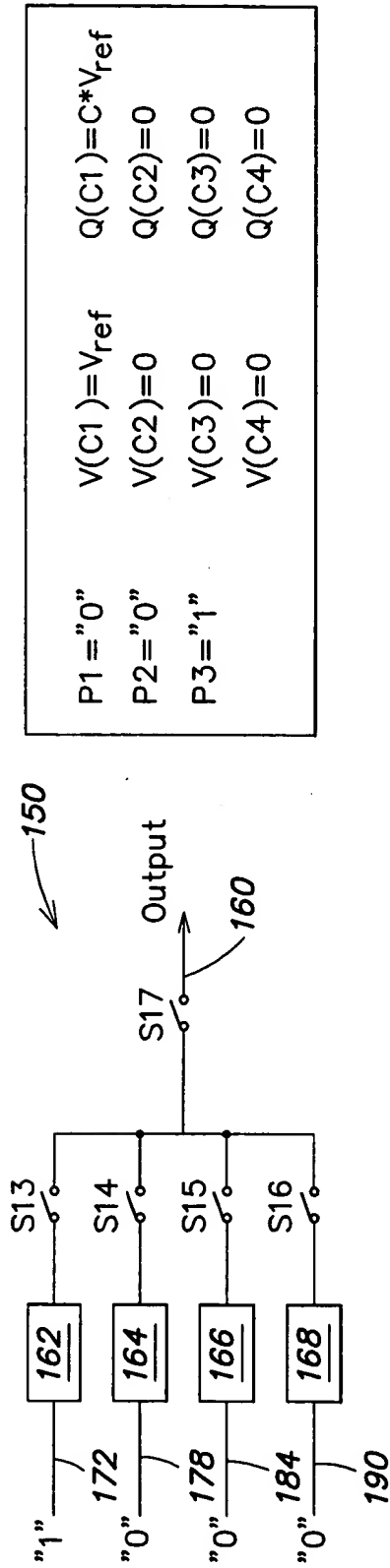


FIG. 7A

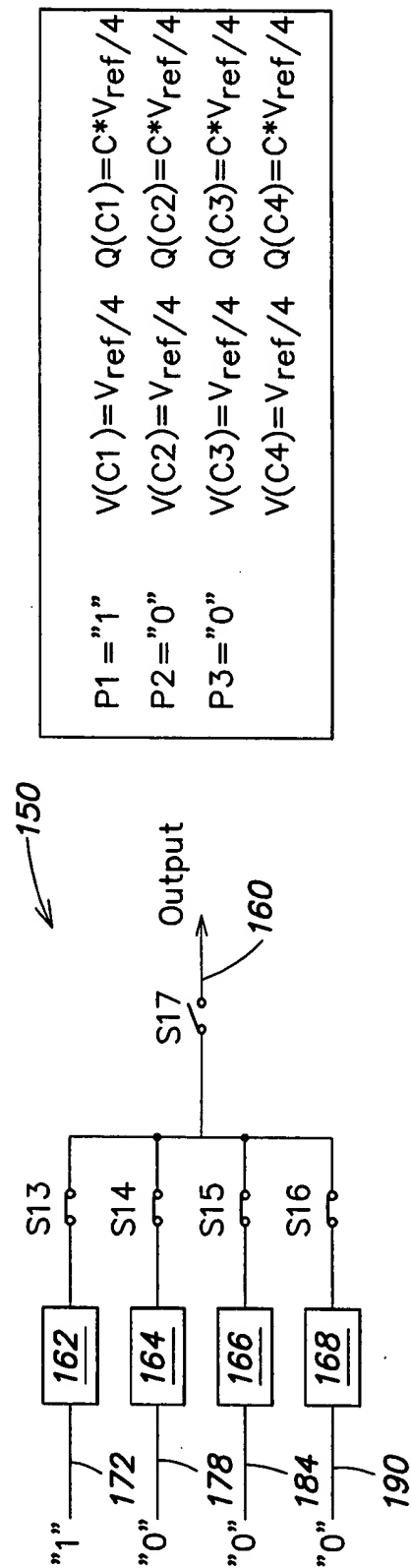


FIG. 7B

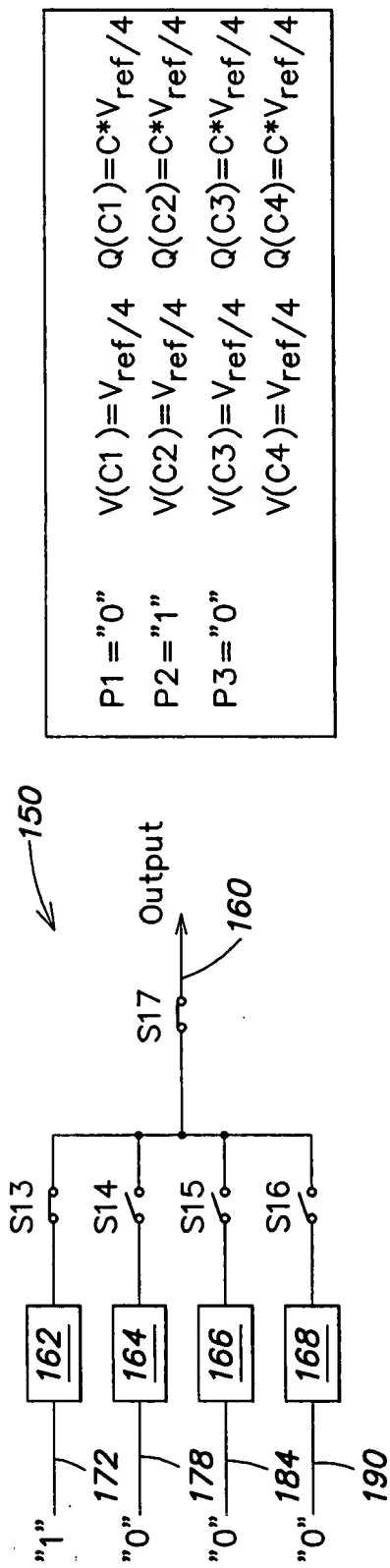


FIG. 7C

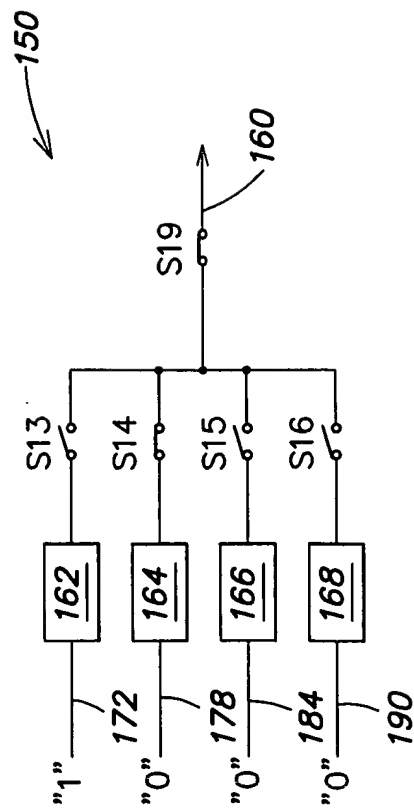


FIG. 10

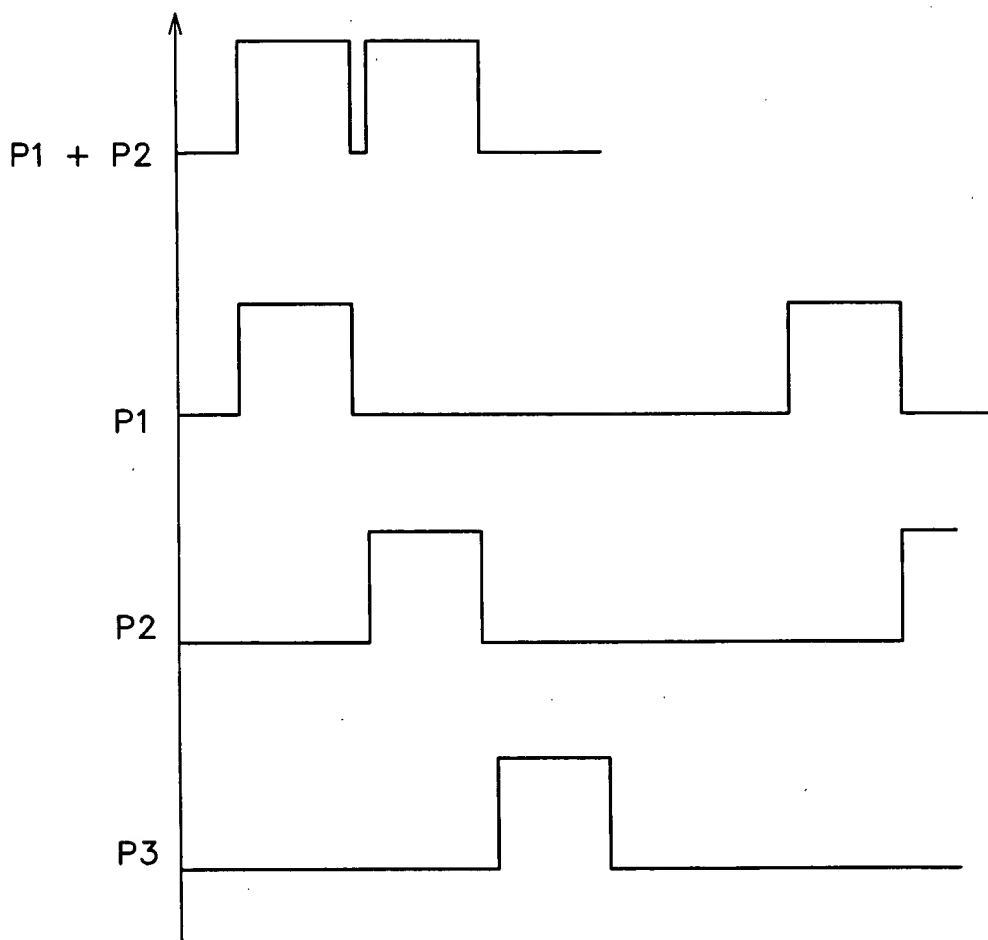


FIG. 6

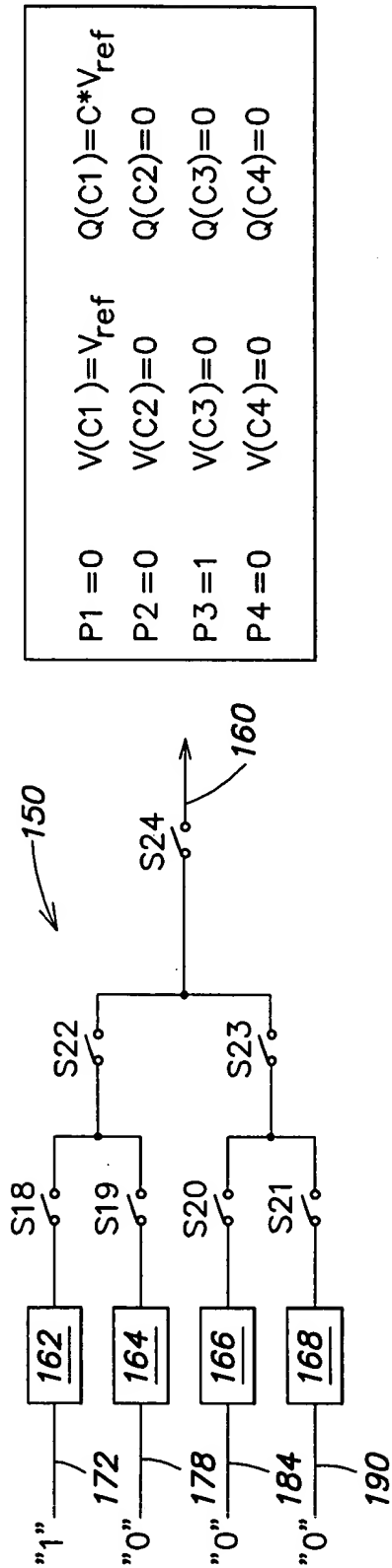


FIG. 8A

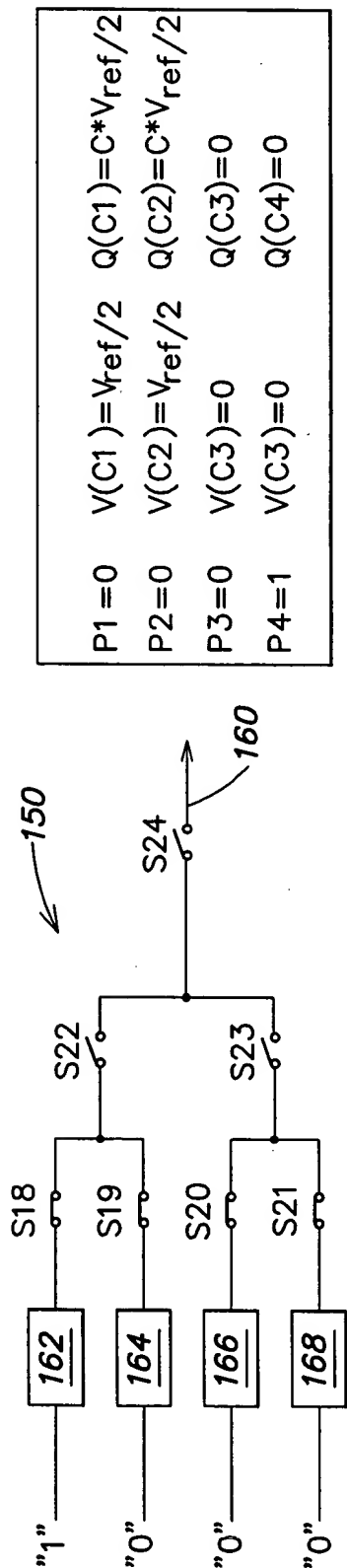


FIG. 8B

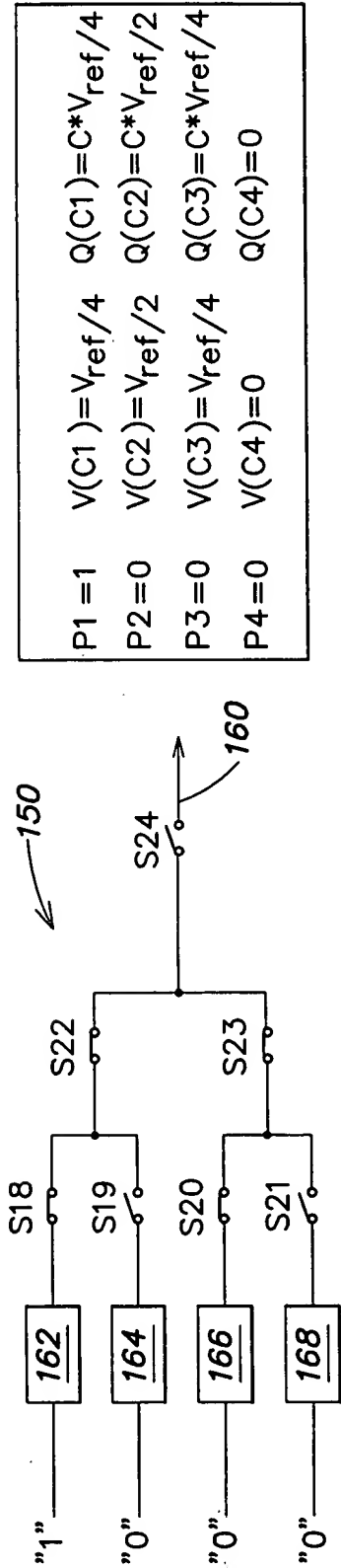


FIG. 8C

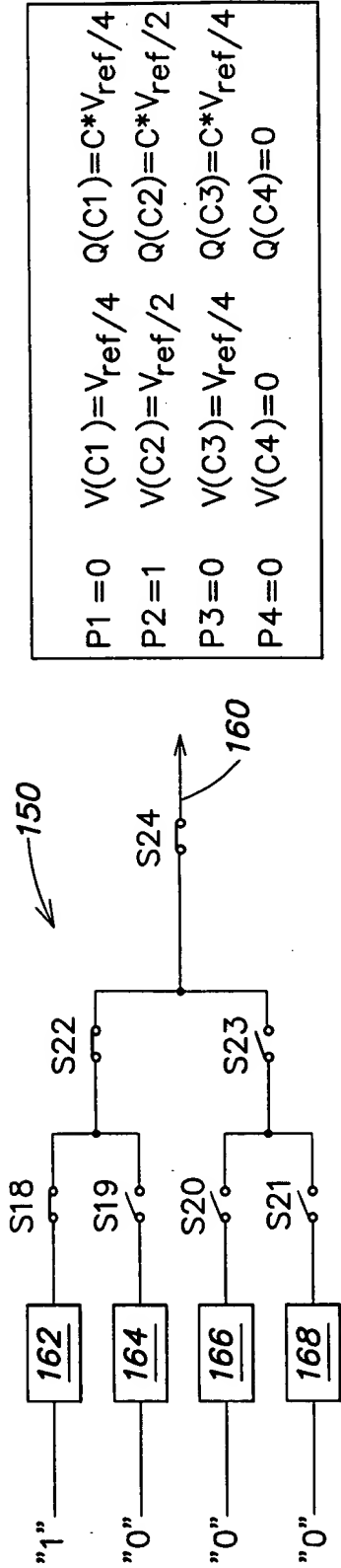


FIG. 8D

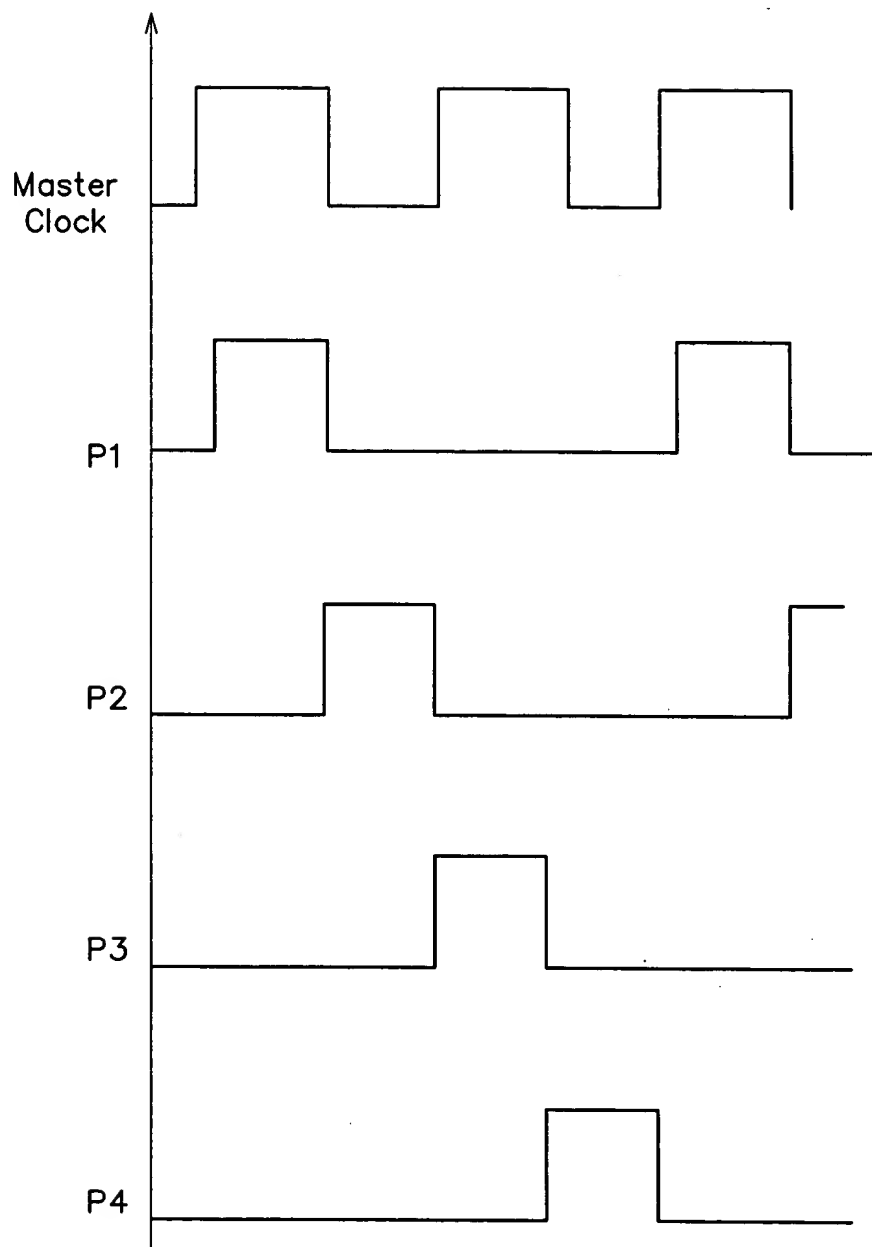


FIG. 9

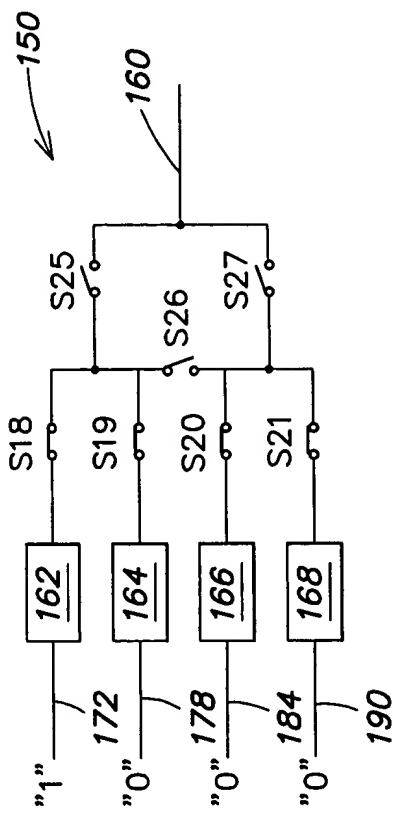


FIG. 11B

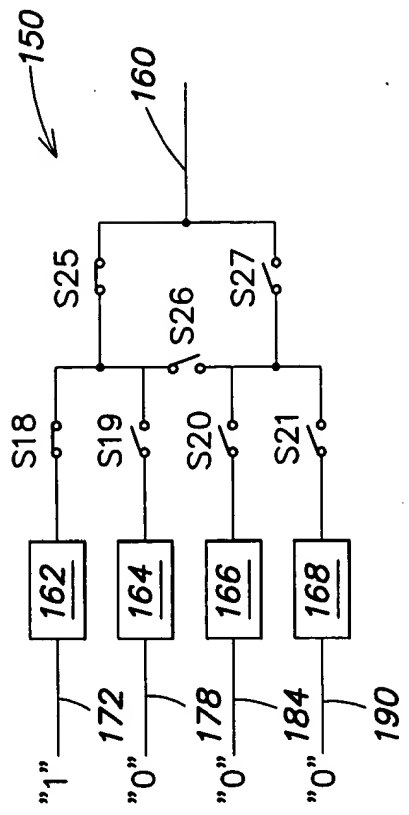


FIG. 11C

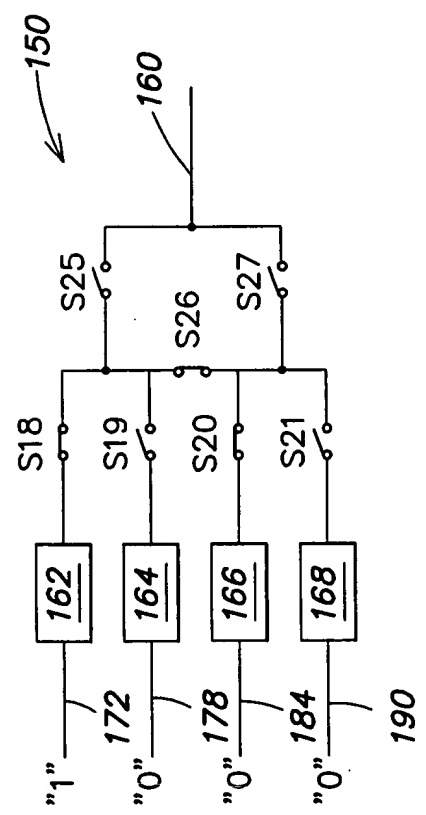


FIG. 11C

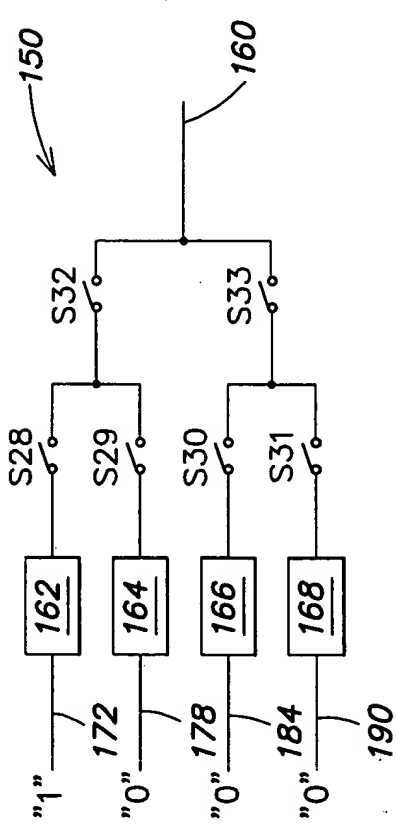


FIG. 12A

P1 = 0	$V(C1) = V_{ref}$	$Q(C1) = C \cdot V_{ref}$
P2 = 0	$V(C2) = 0$	$Q(C2) = 0$
P3 = 1	$V(C3) = 0$	$Q(C3) = 0$
	$V(C4) = 0$	$Q(C4) = 0$

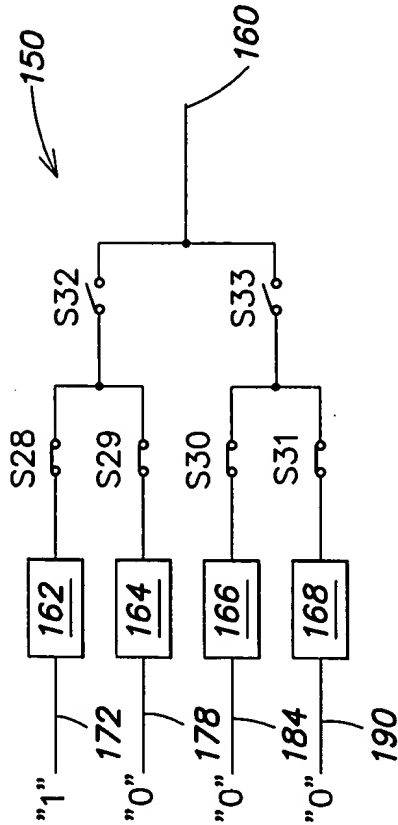
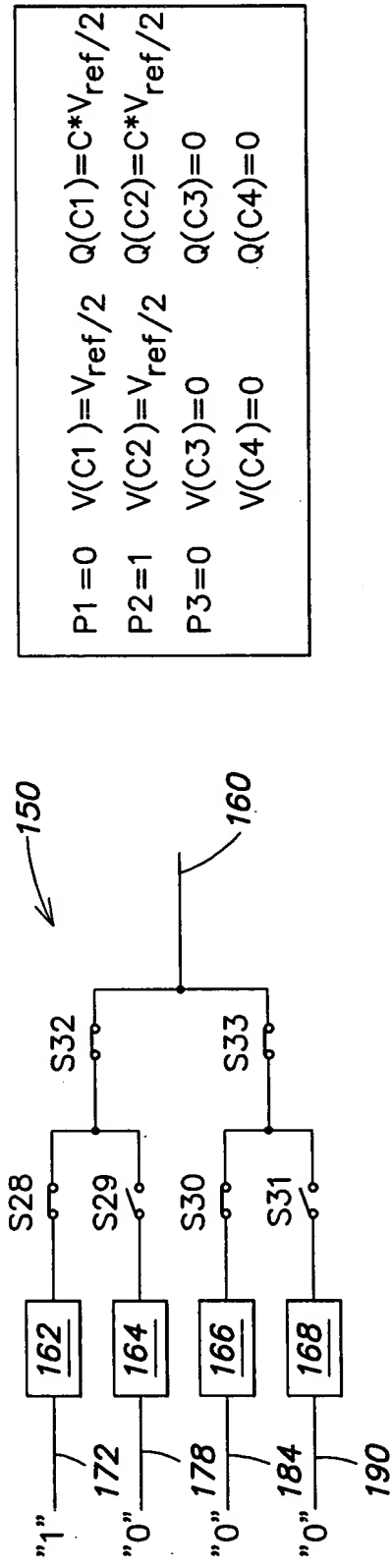


FIG. 12B

P1 = 1	$V(C1) = V_{ref}/2$	$Q(C1) = C \cdot V_{ref}/2$
P2 = 0	$V(C2) = V_{ref}/2$	$Q(C2) = C \cdot V_{ref}/2$
P3 = 0	$V(C3) = 0$	$Q(C3) = 0$
	$V(C4) = 0$	$Q(C4) = 0$



P1 = 0	V(C1) = $V_{ref}/2$	Q(C1) = $C \cdot V_{ref}/2$
P2 = 1	V(C2) = $V_{ref}/2$	Q(C2) = $C \cdot V_{ref}/2$
P3 = 0	V(C3) = 0	Q(C3) = 0
	V(C4) = 0	Q(C4) = 0

FIG. 12C

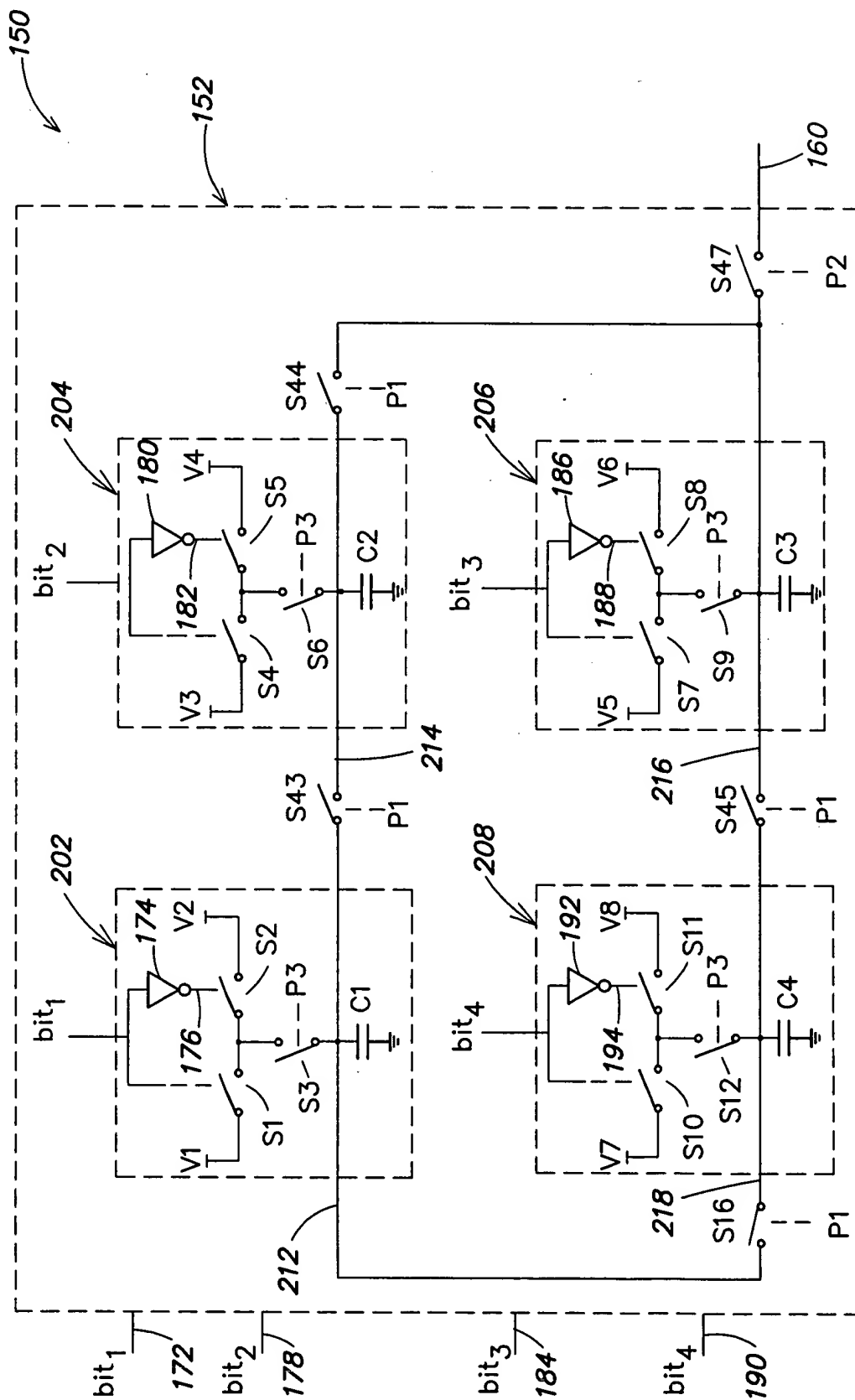


FIG. 13

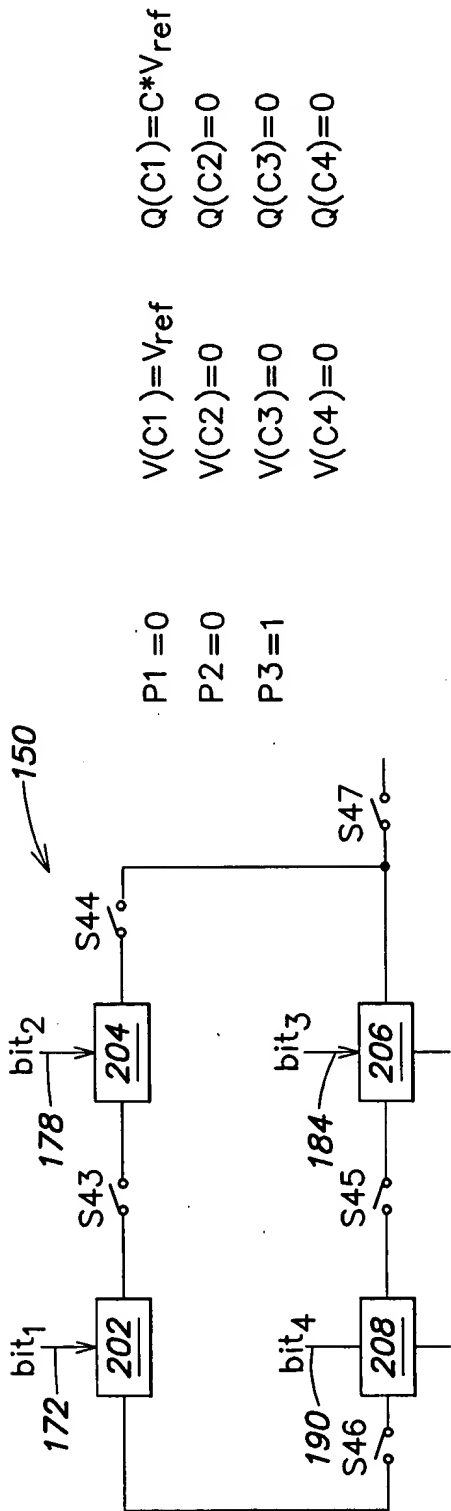


FIG. 14A

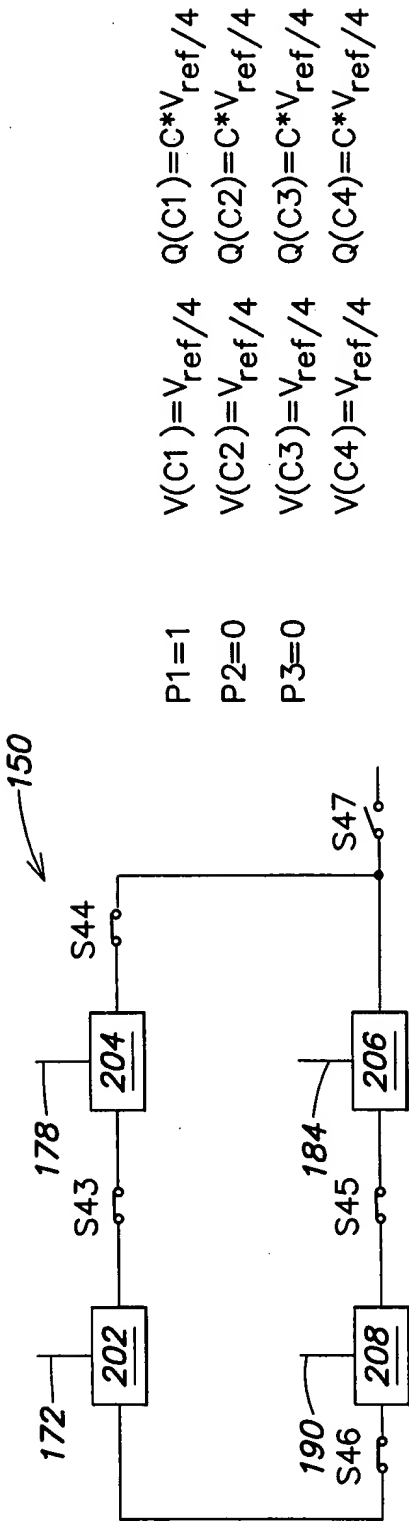


FIG. 14B

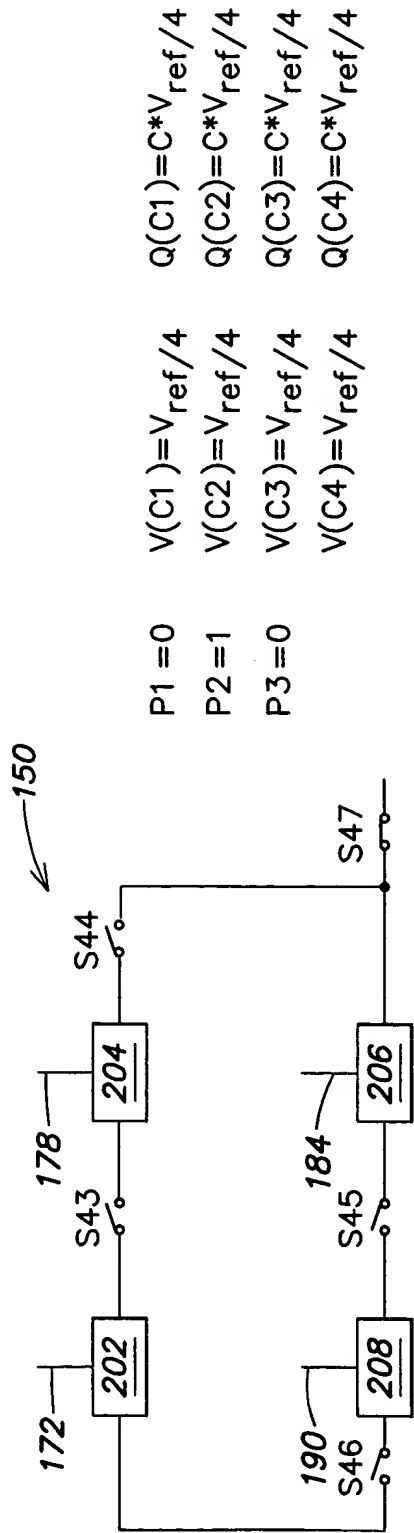


FIG. 14C

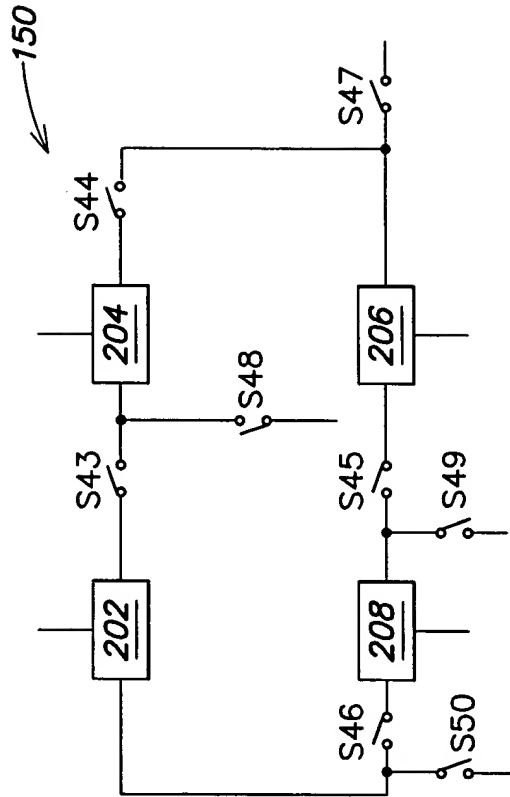


FIG. 15

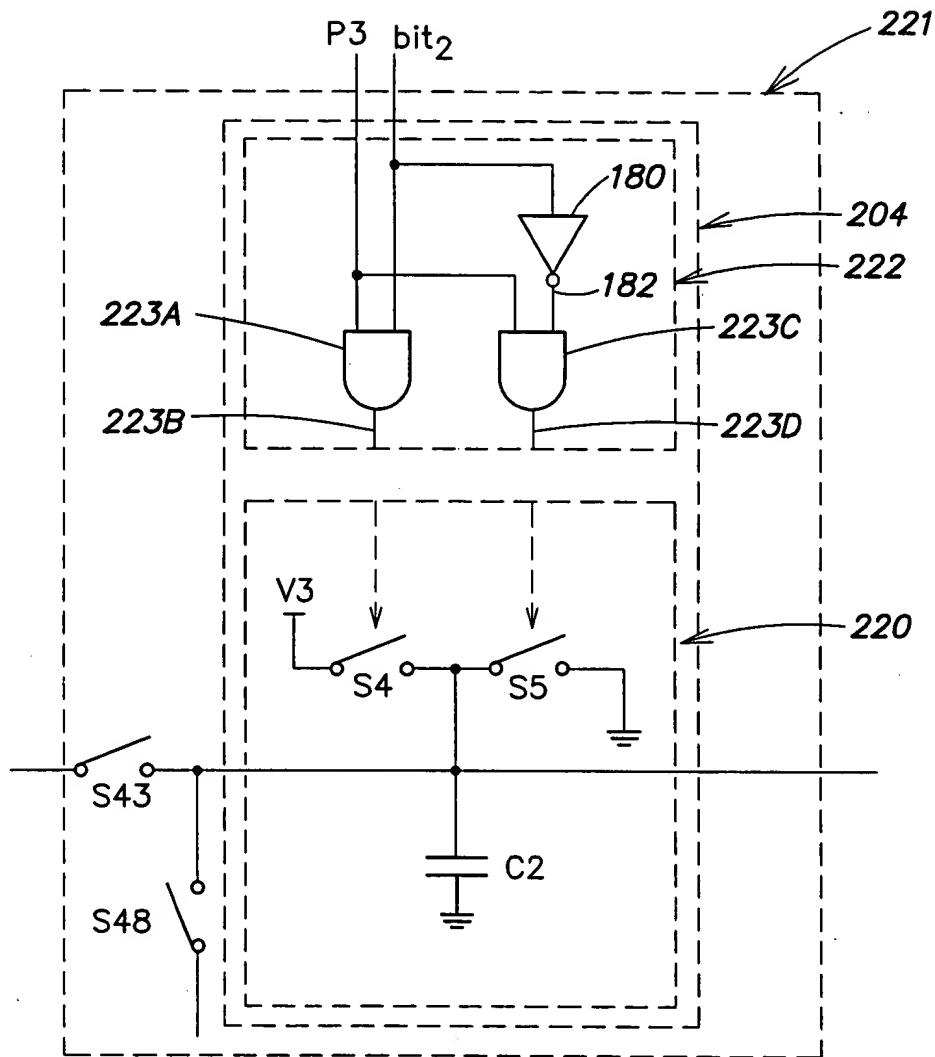


FIG. 16A

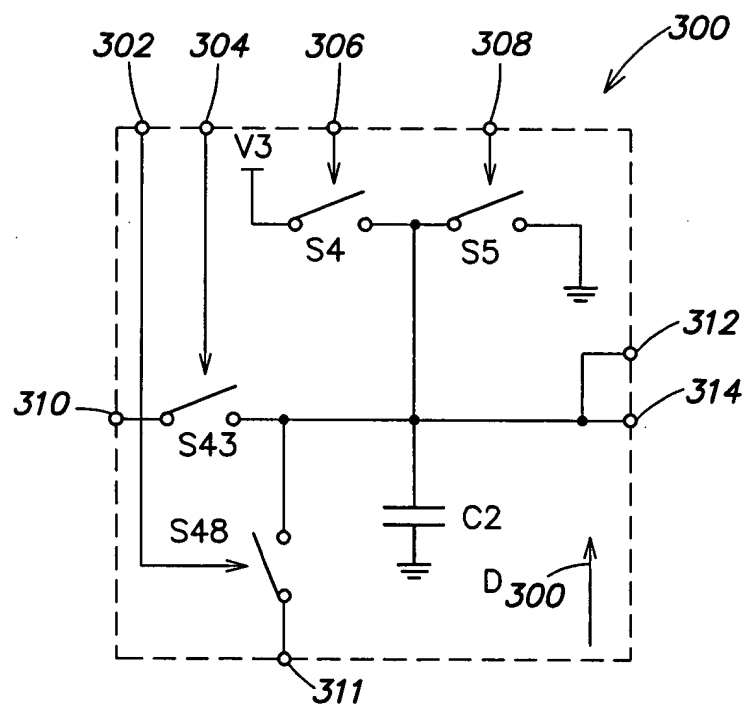


FIG. 16B

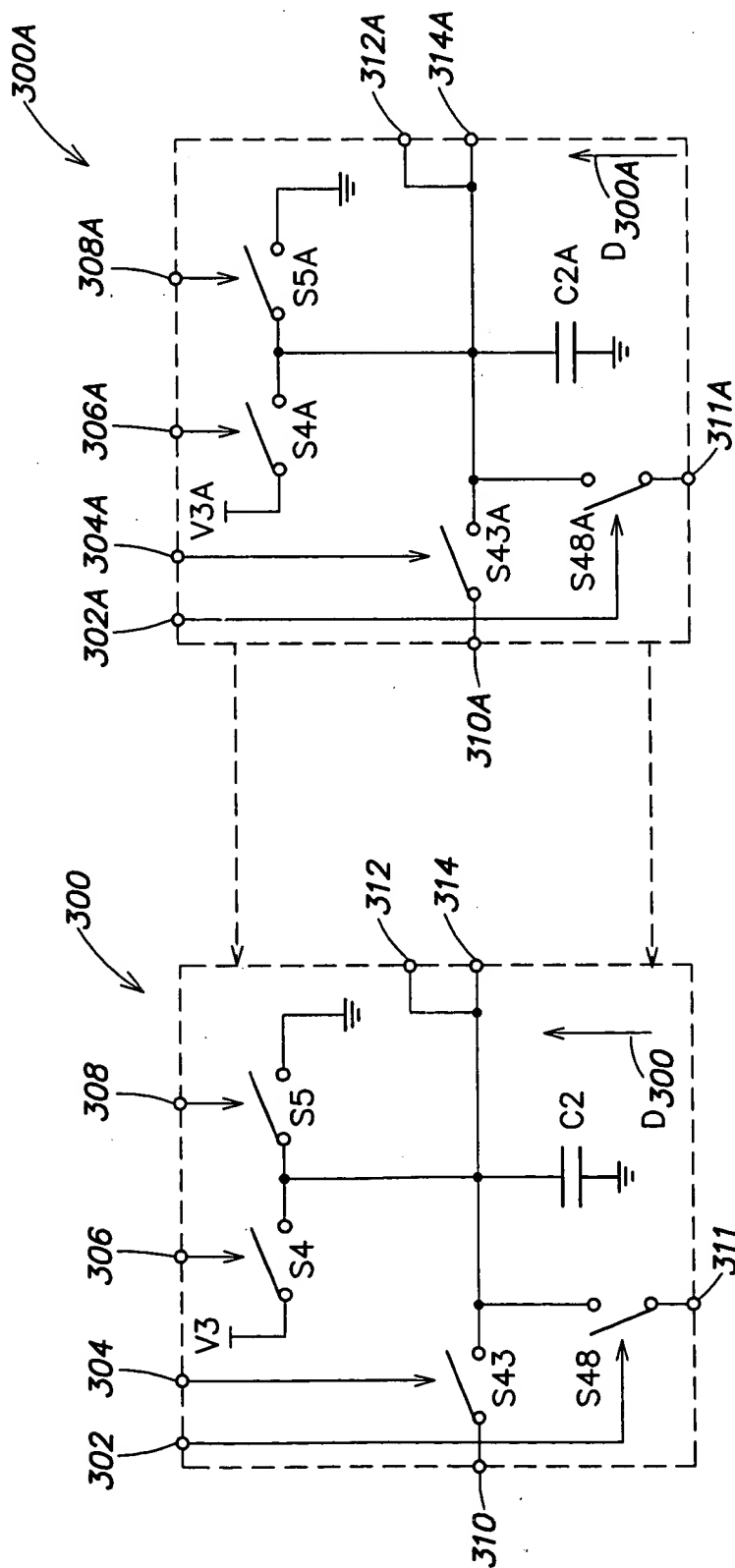


FIG. 16C

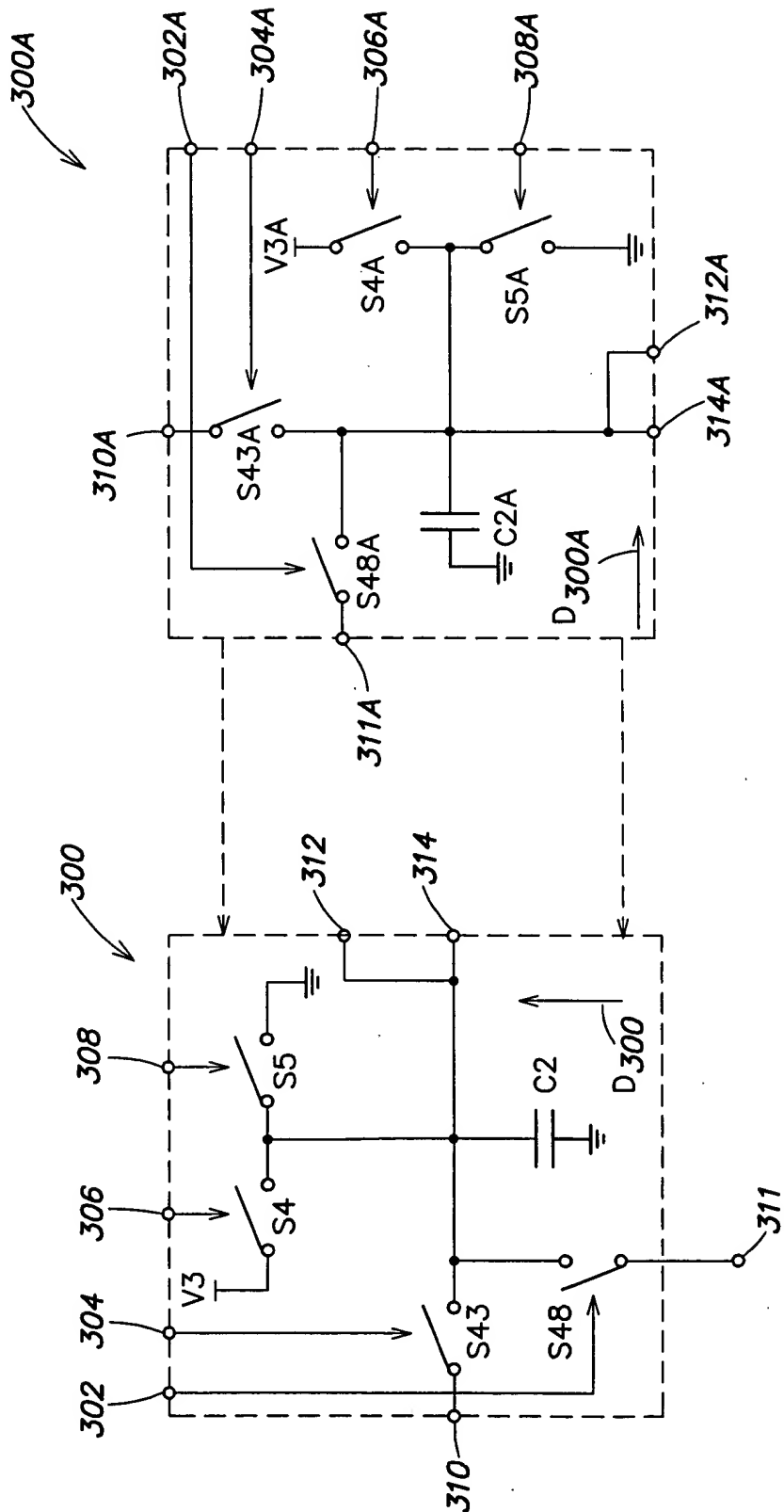


FIG. 16D

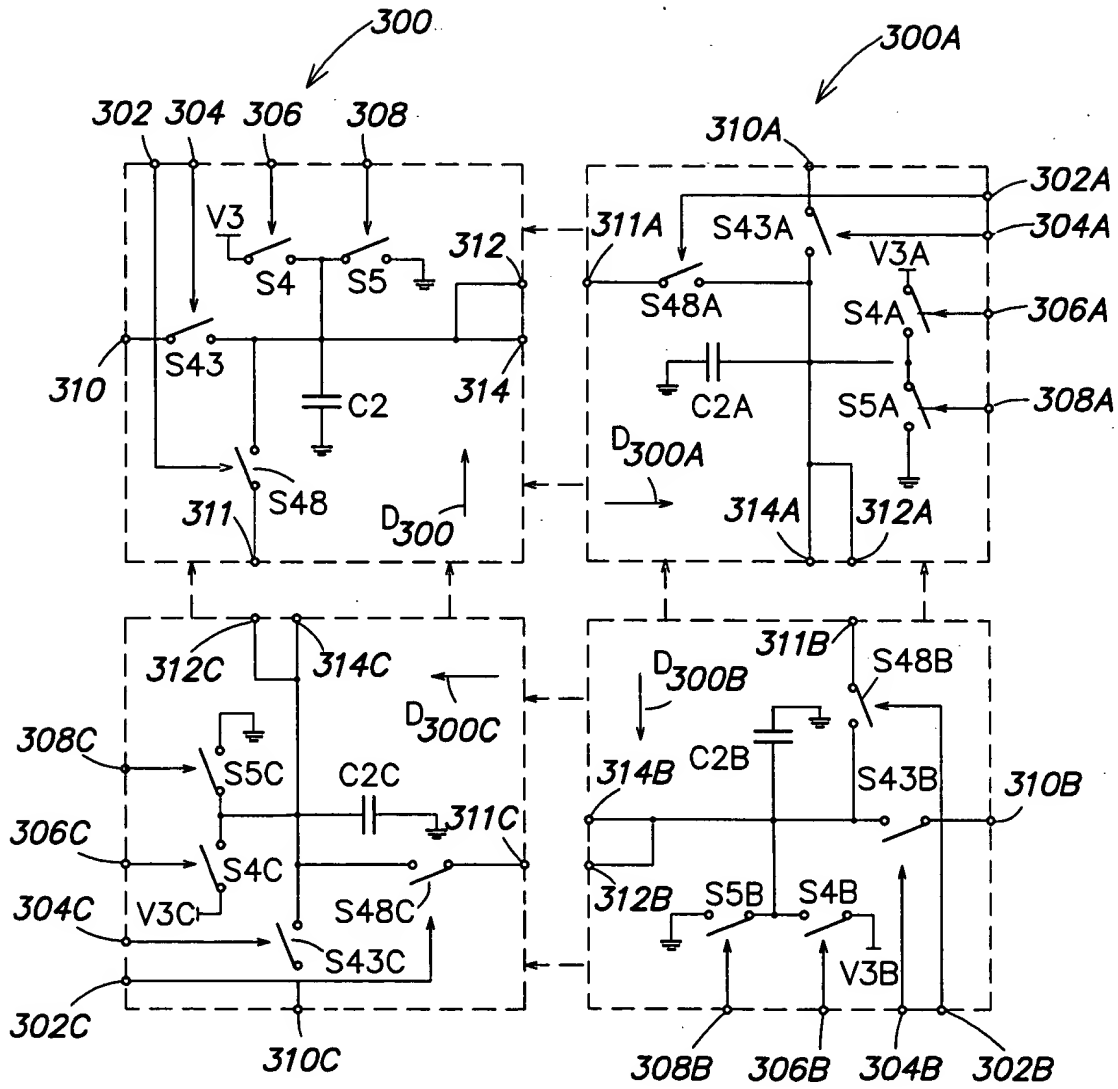


FIG. 16E

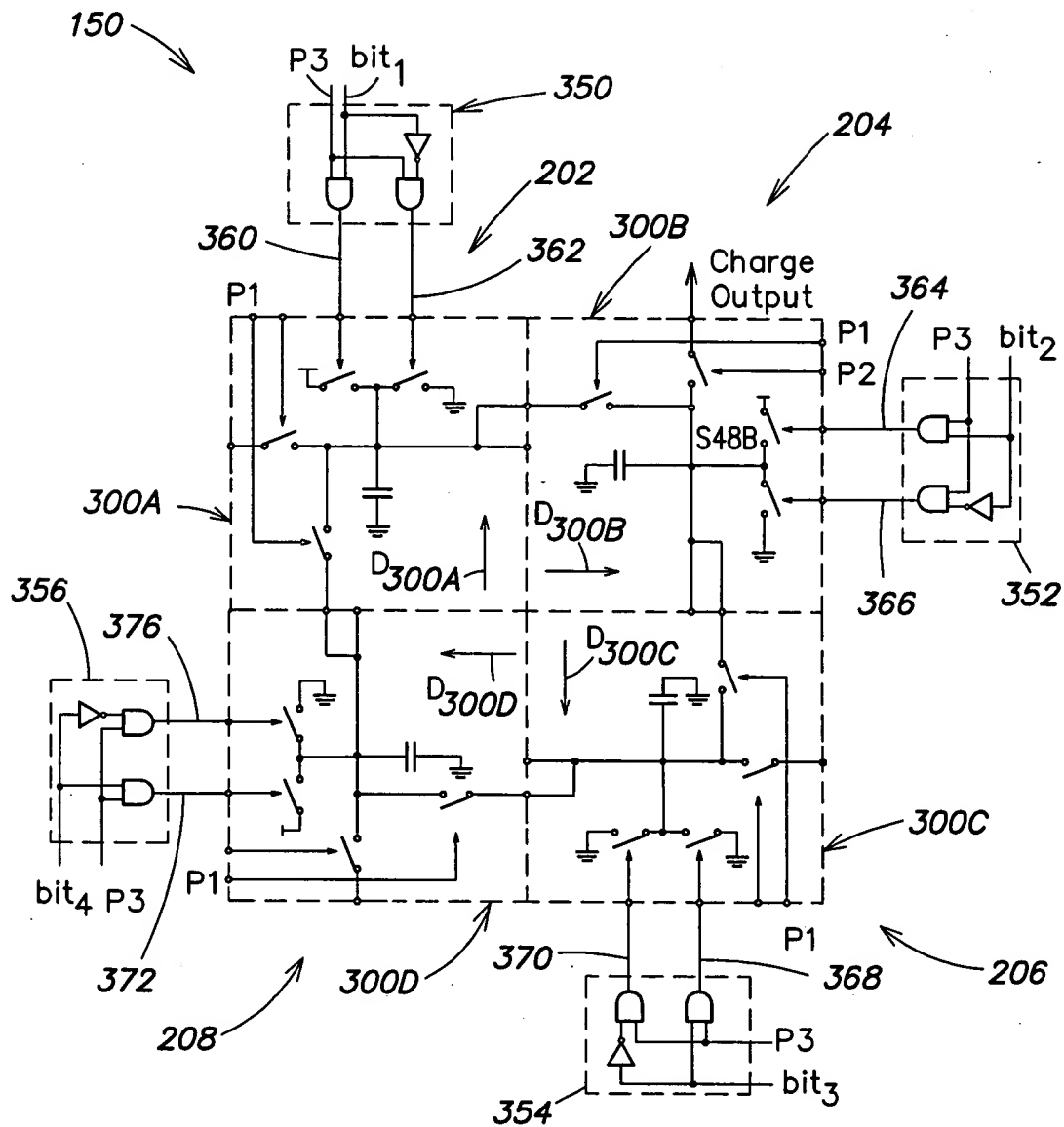


FIG. 17



FIG. 18

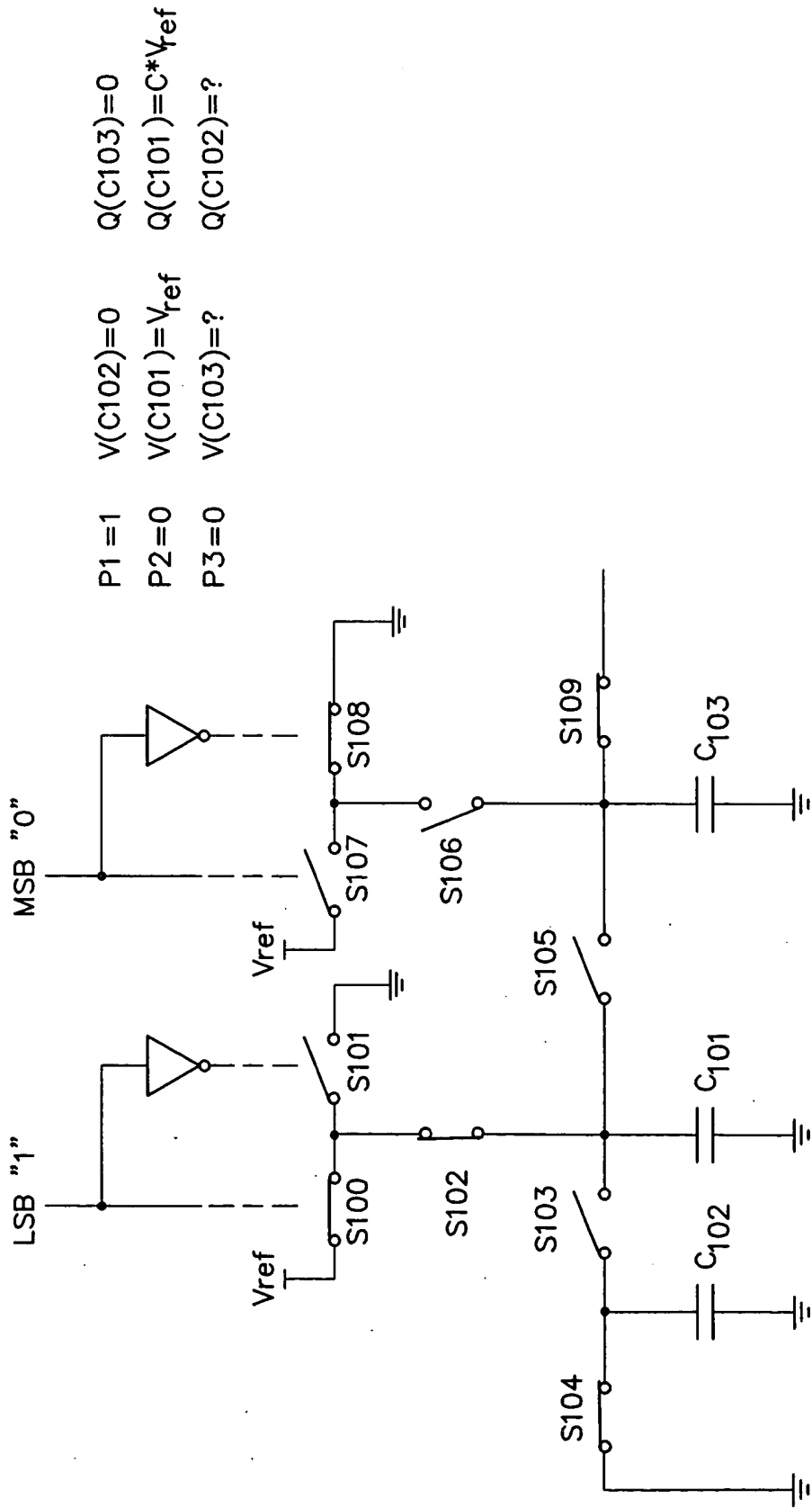


FIG. 19A

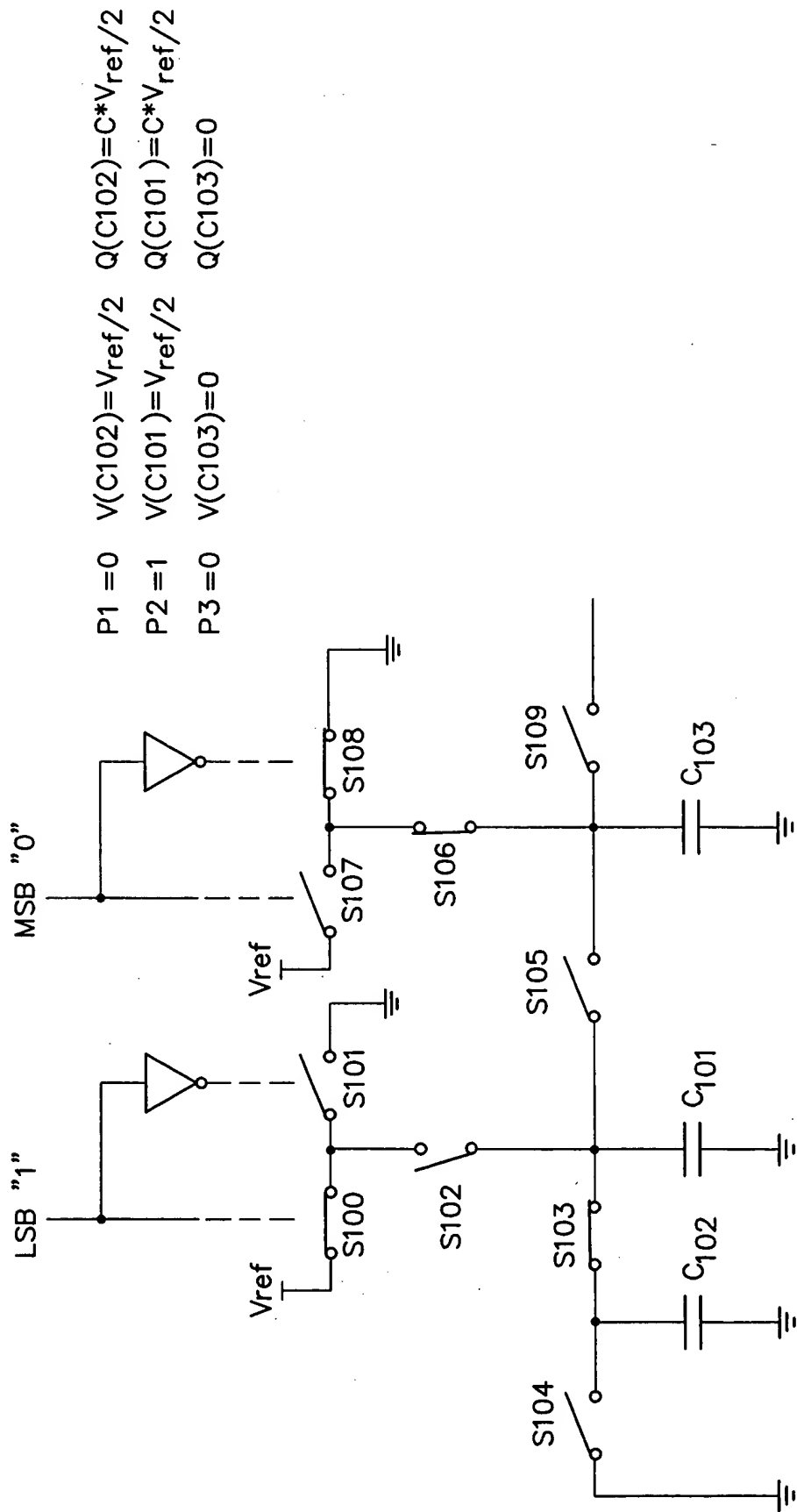
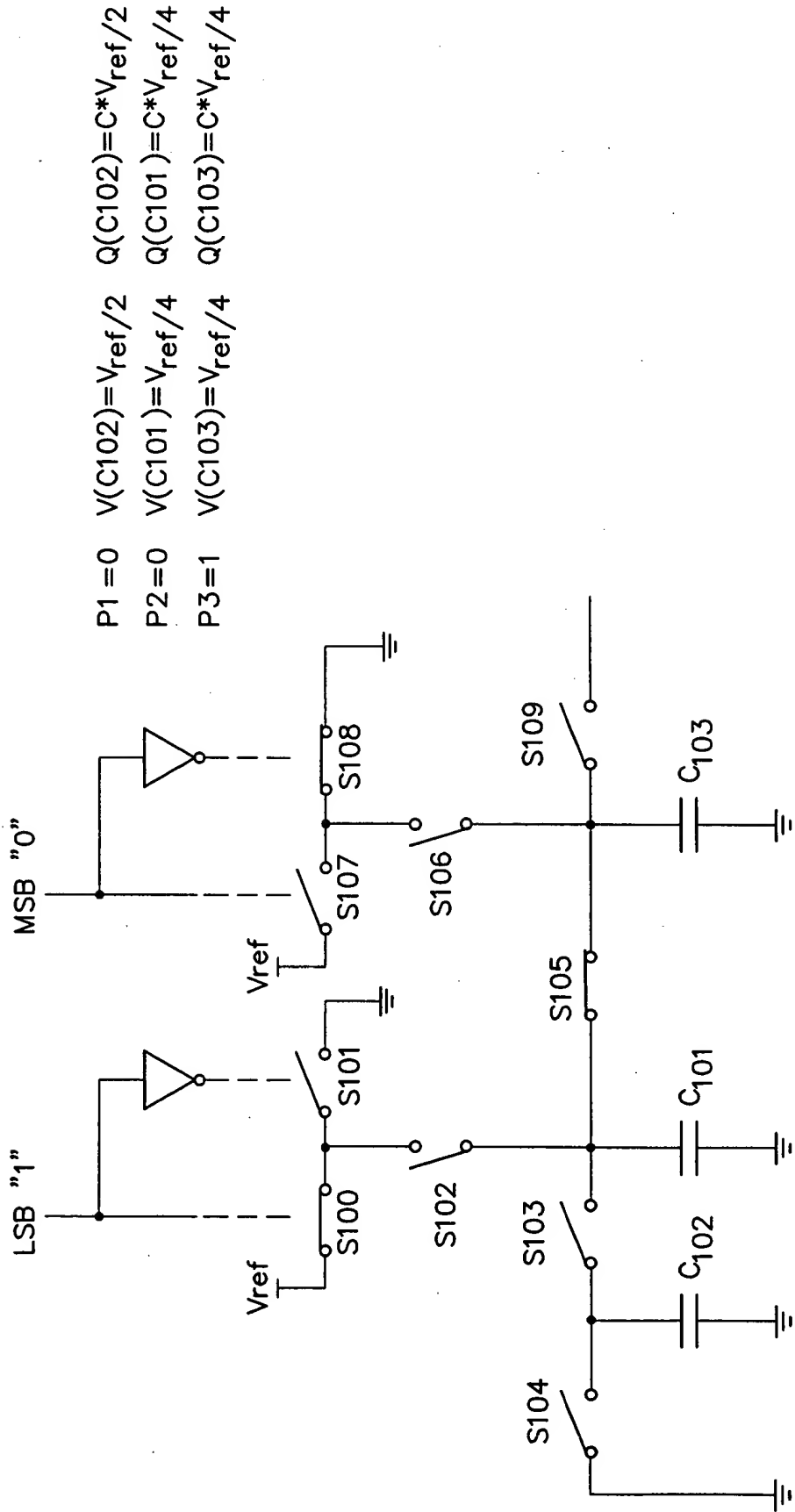


FIG. 19B



P1 = 0 $V(C102) = V_{ref}/2$ $Q(C102) = C * V_{ref}/2$
P2 = 0 $V(C101) = V_{ref}/4$ $Q(C101) = C * V_{ref}/4$
P3 = 1 $V(C103) = V_{ref}/4$ $Q(C103) = C * V_{ref}/4$

FIG. 19C

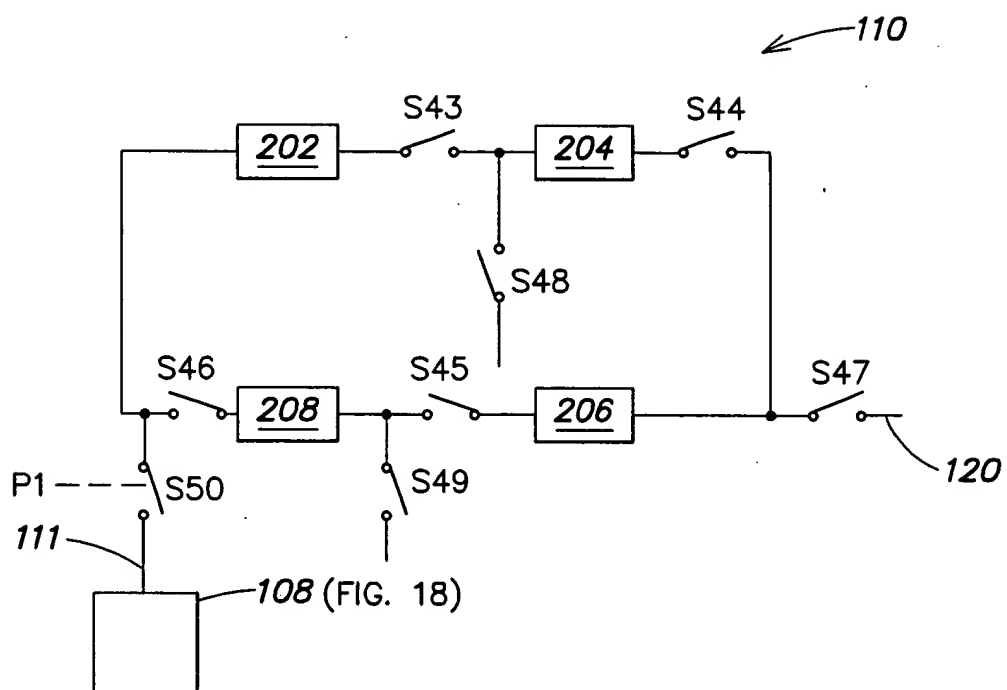


FIG. 20

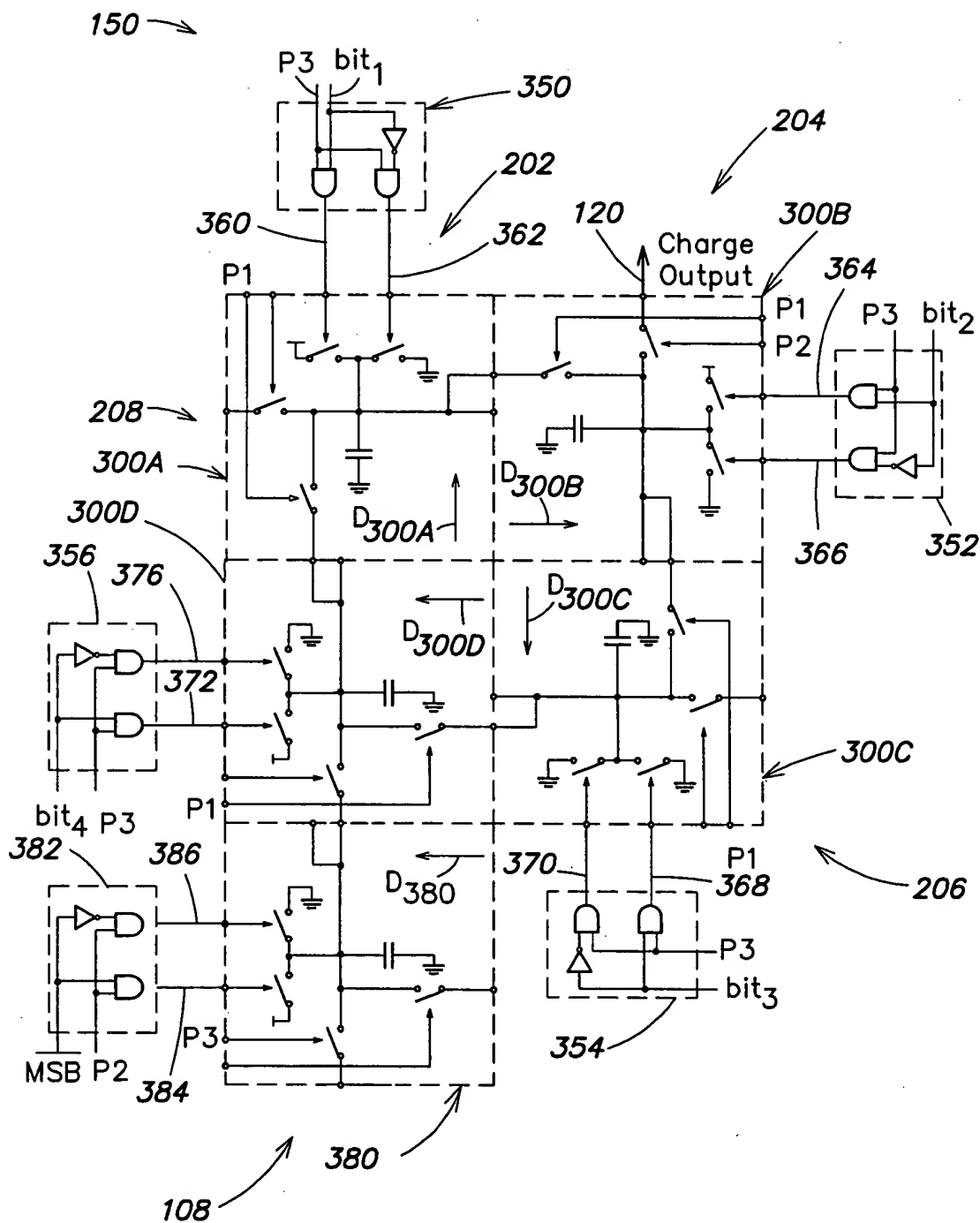


FIG. 21

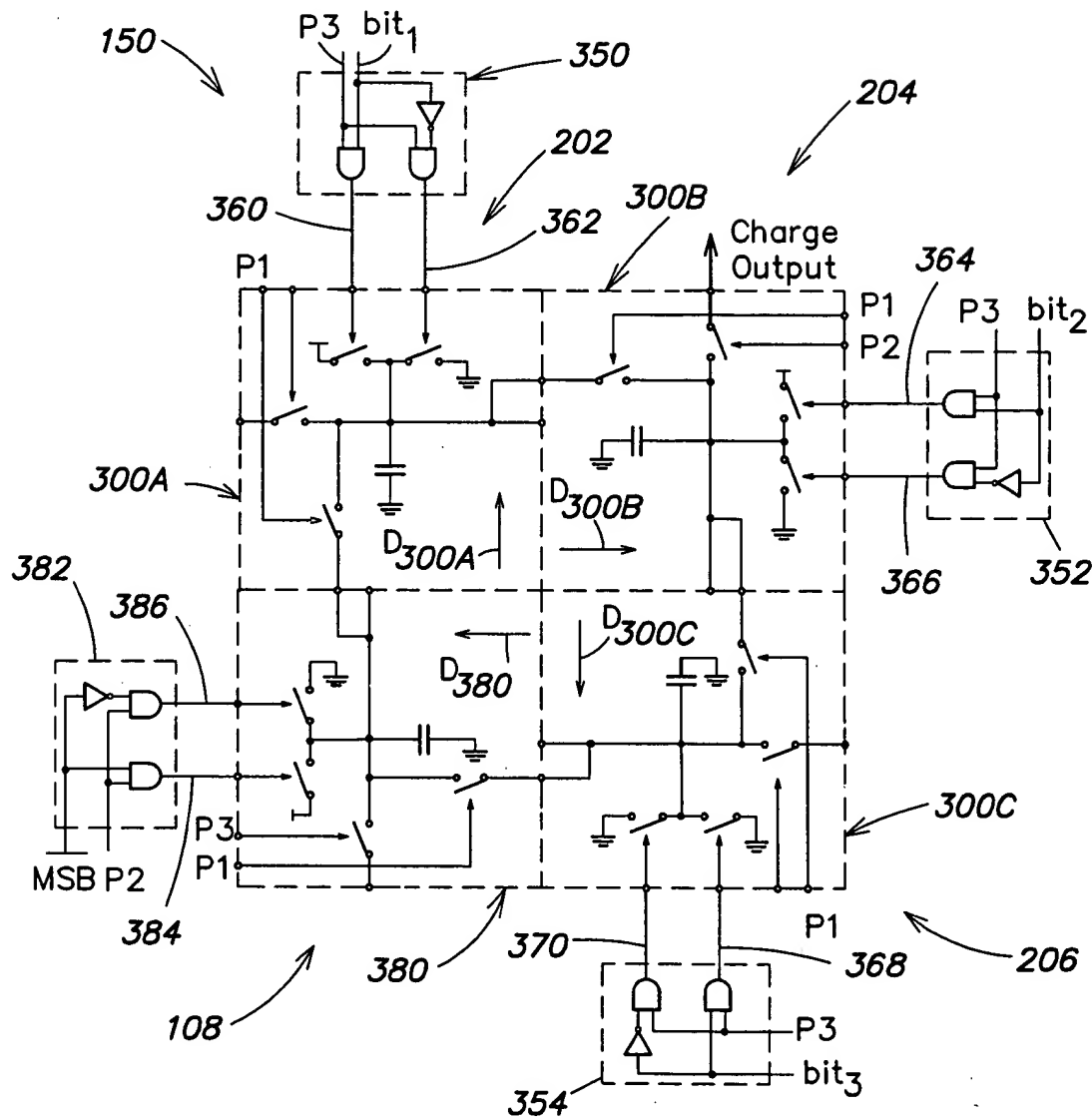


FIG. 22

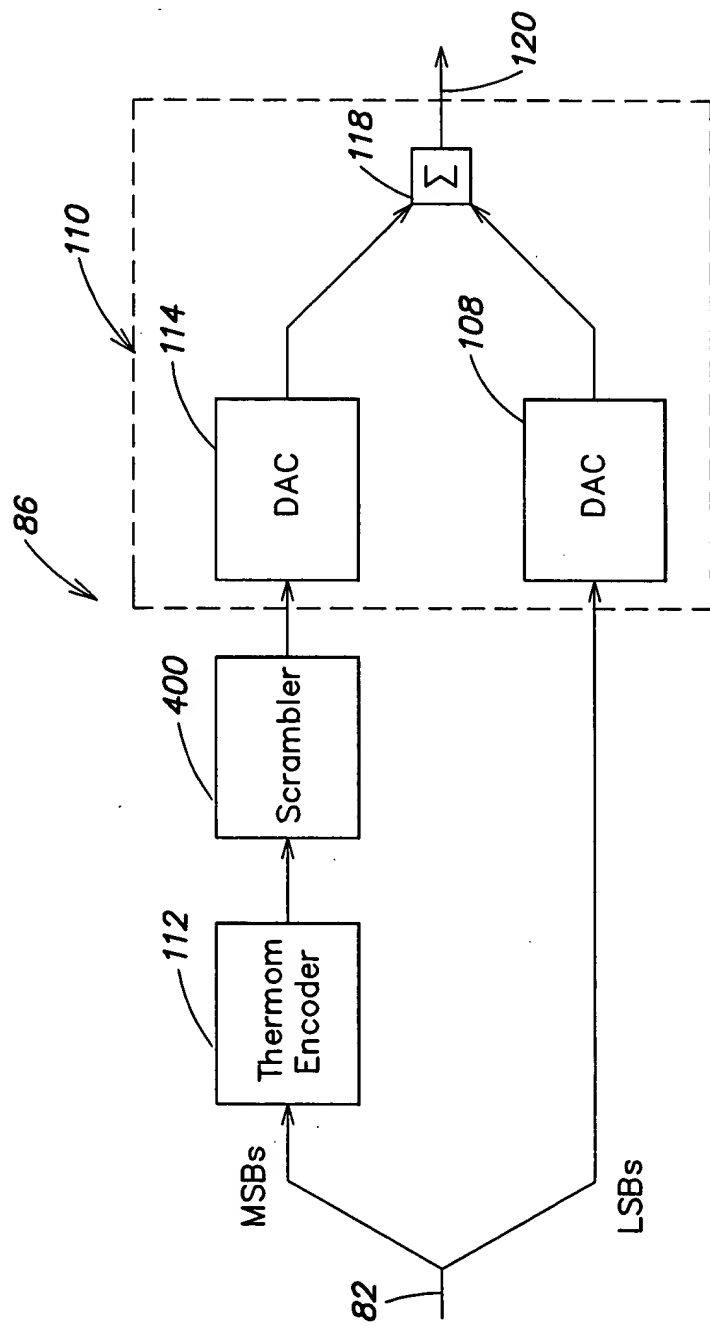


FIG. 23

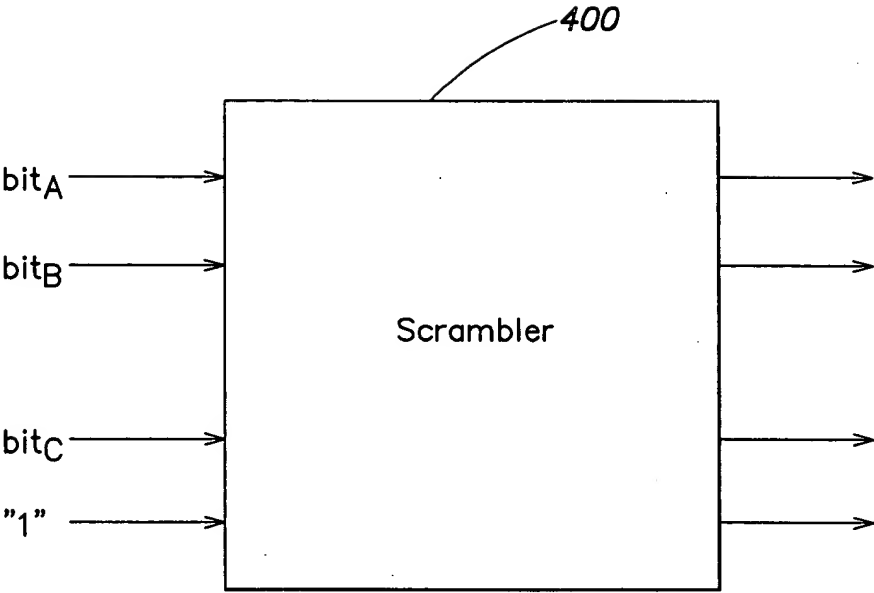


FIG. 24

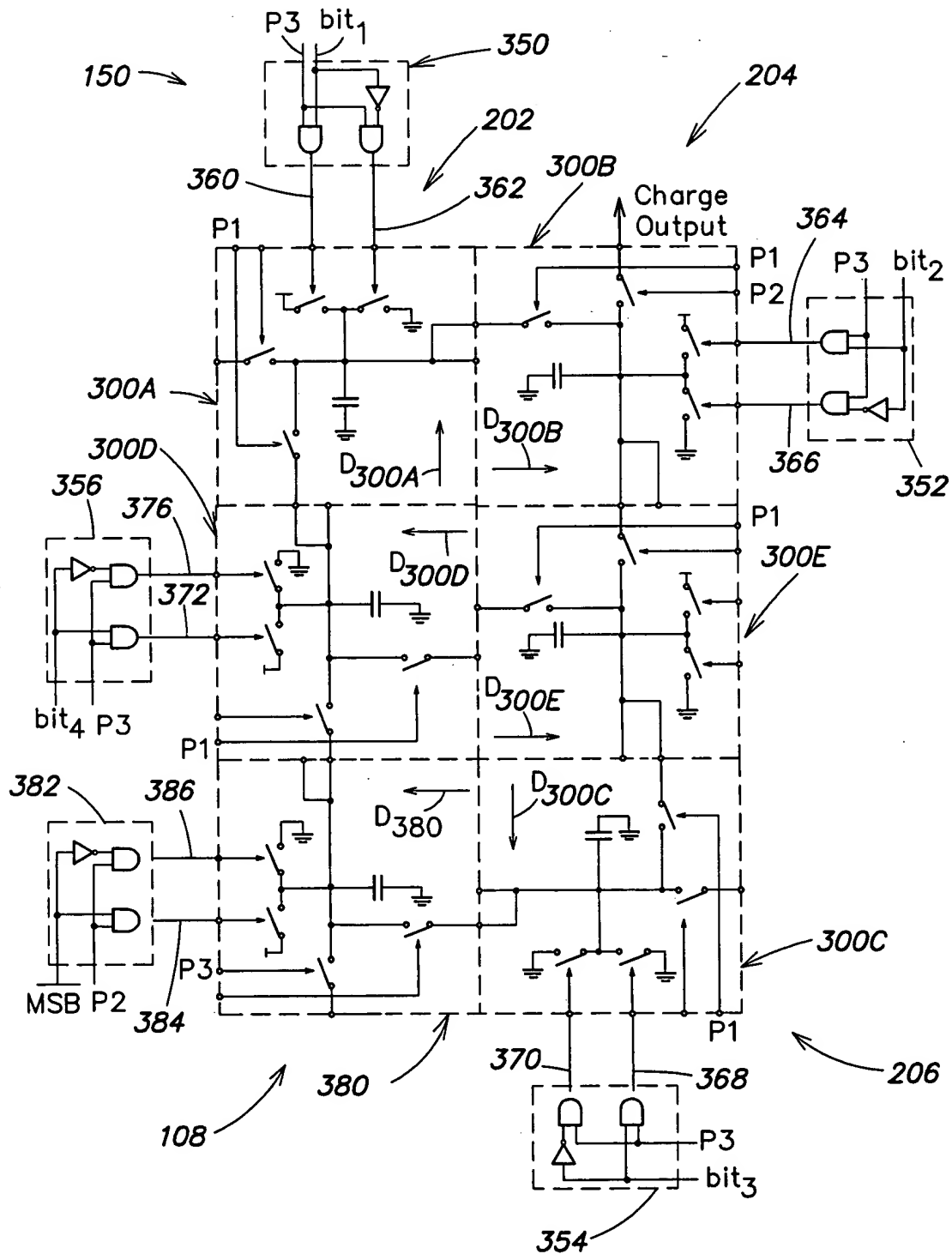


FIG. 25

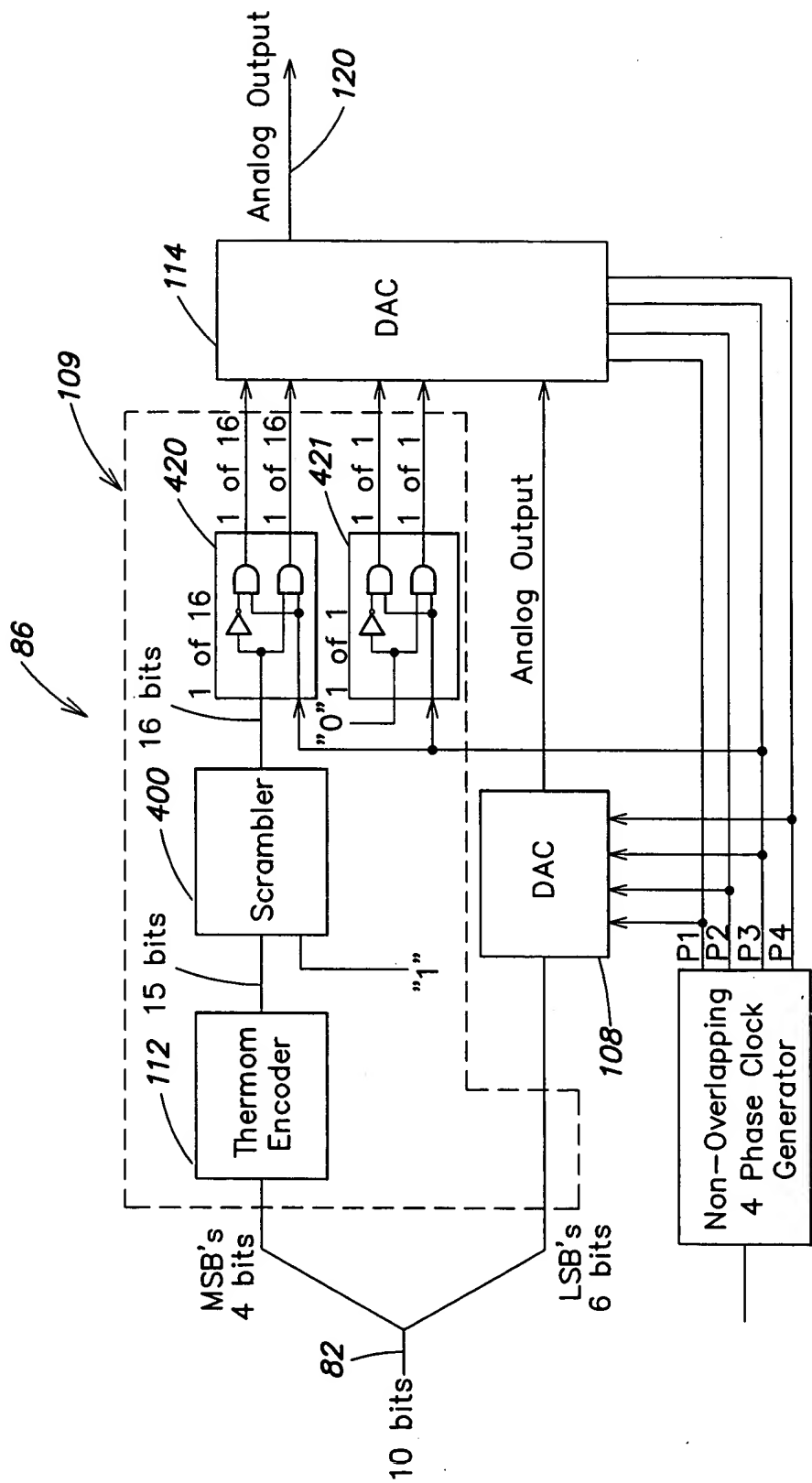


FIG. 26

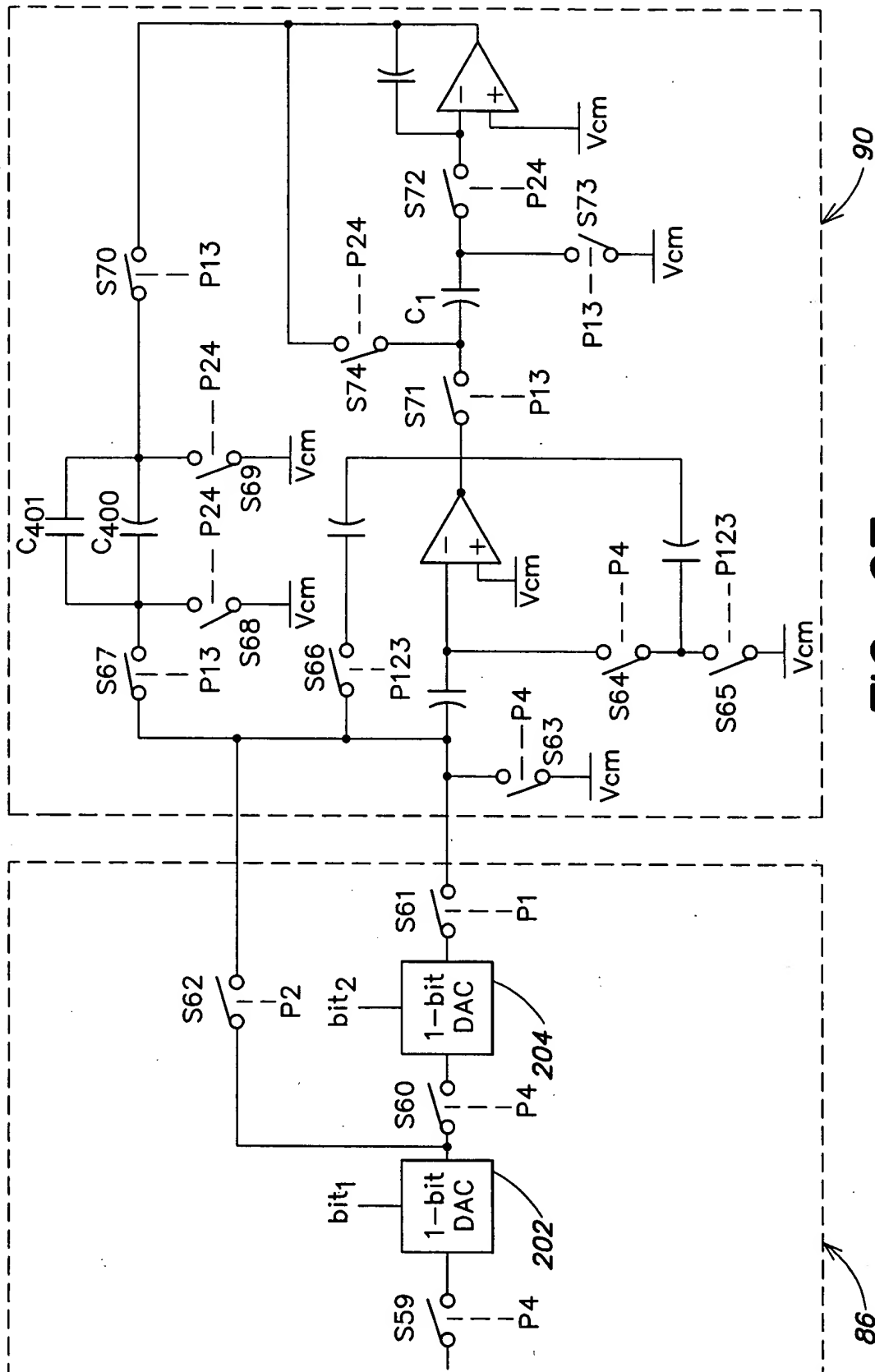


FIG. 27

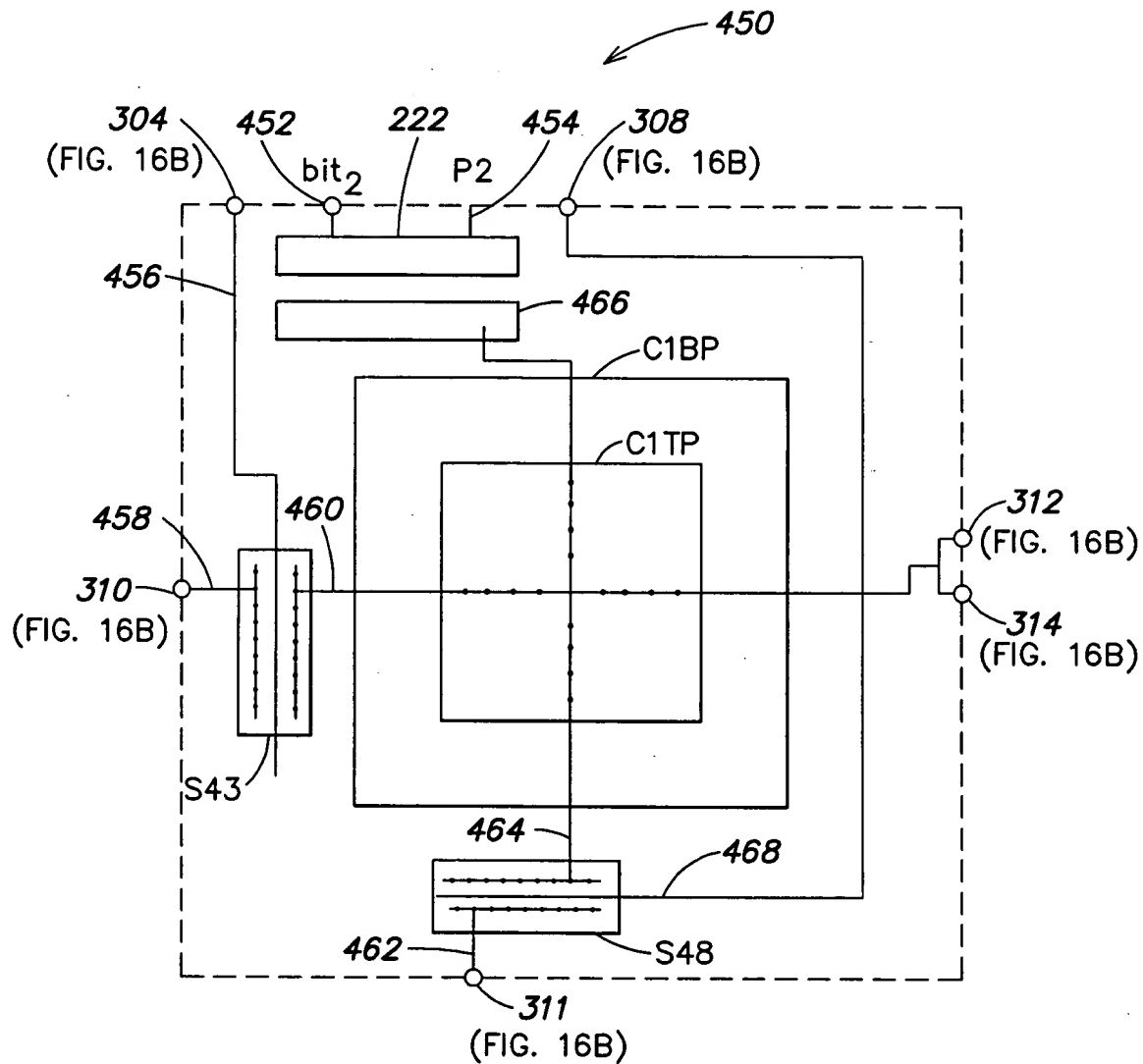


FIG. 28A

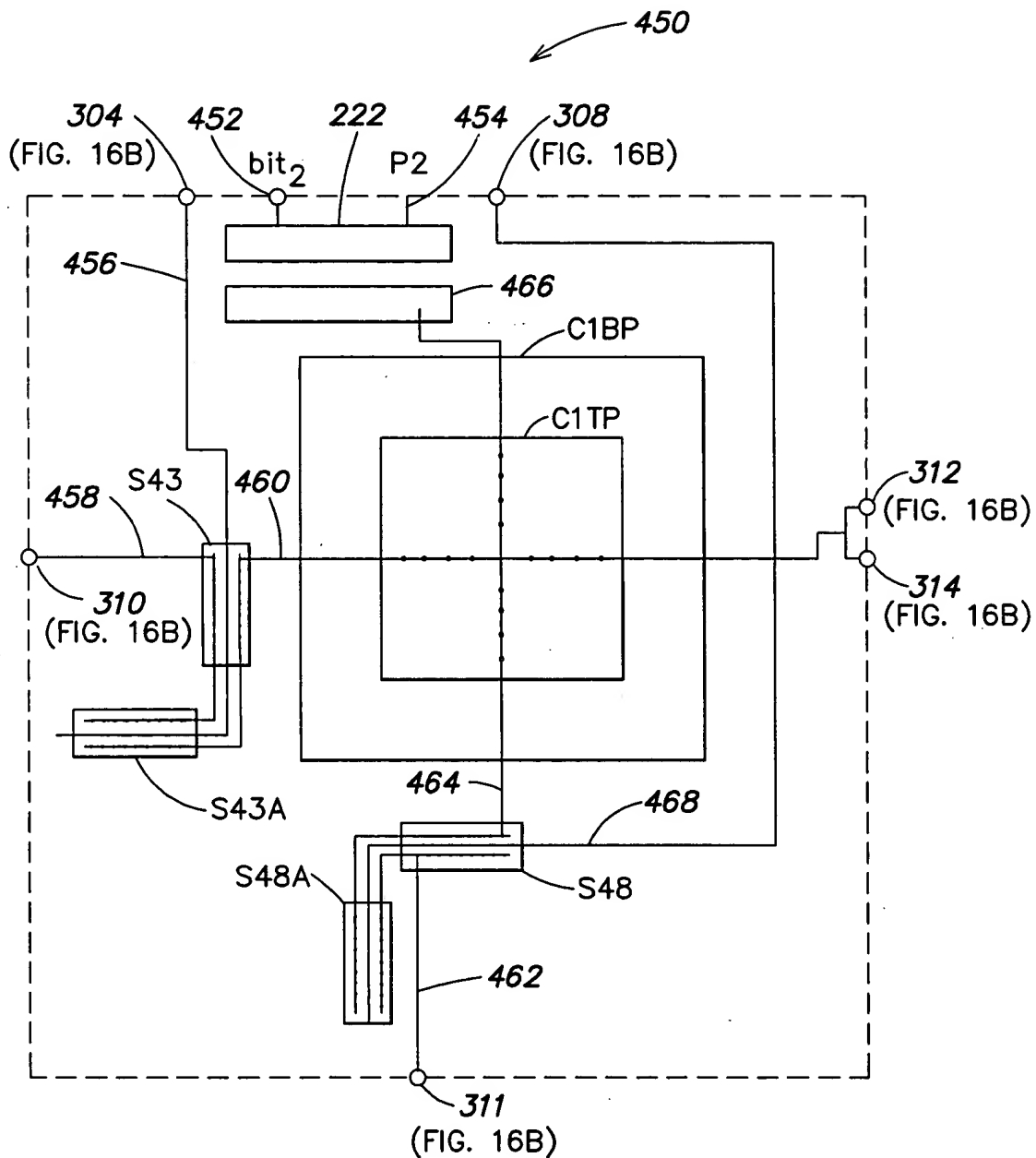


FIG. 28B

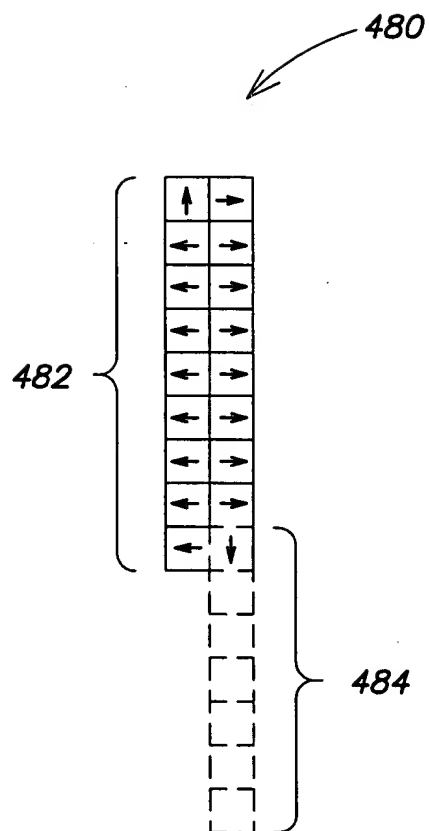


FIG. 29

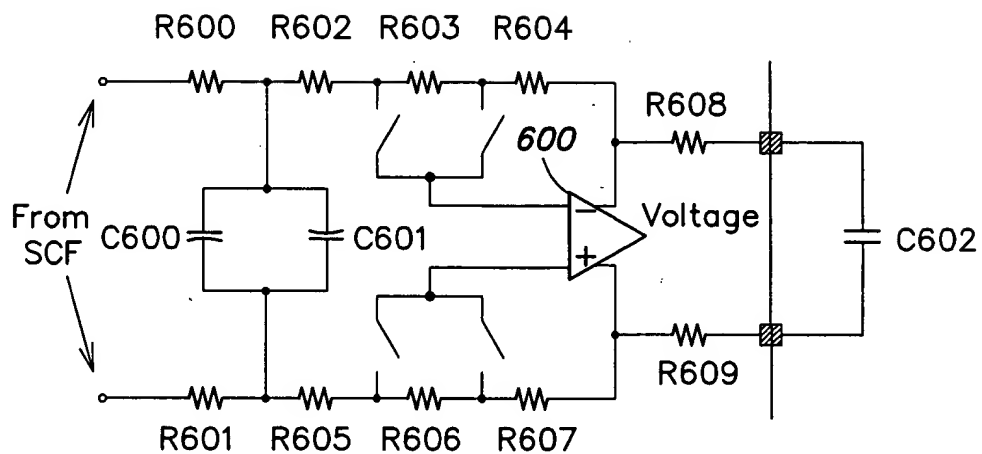


FIG. 30

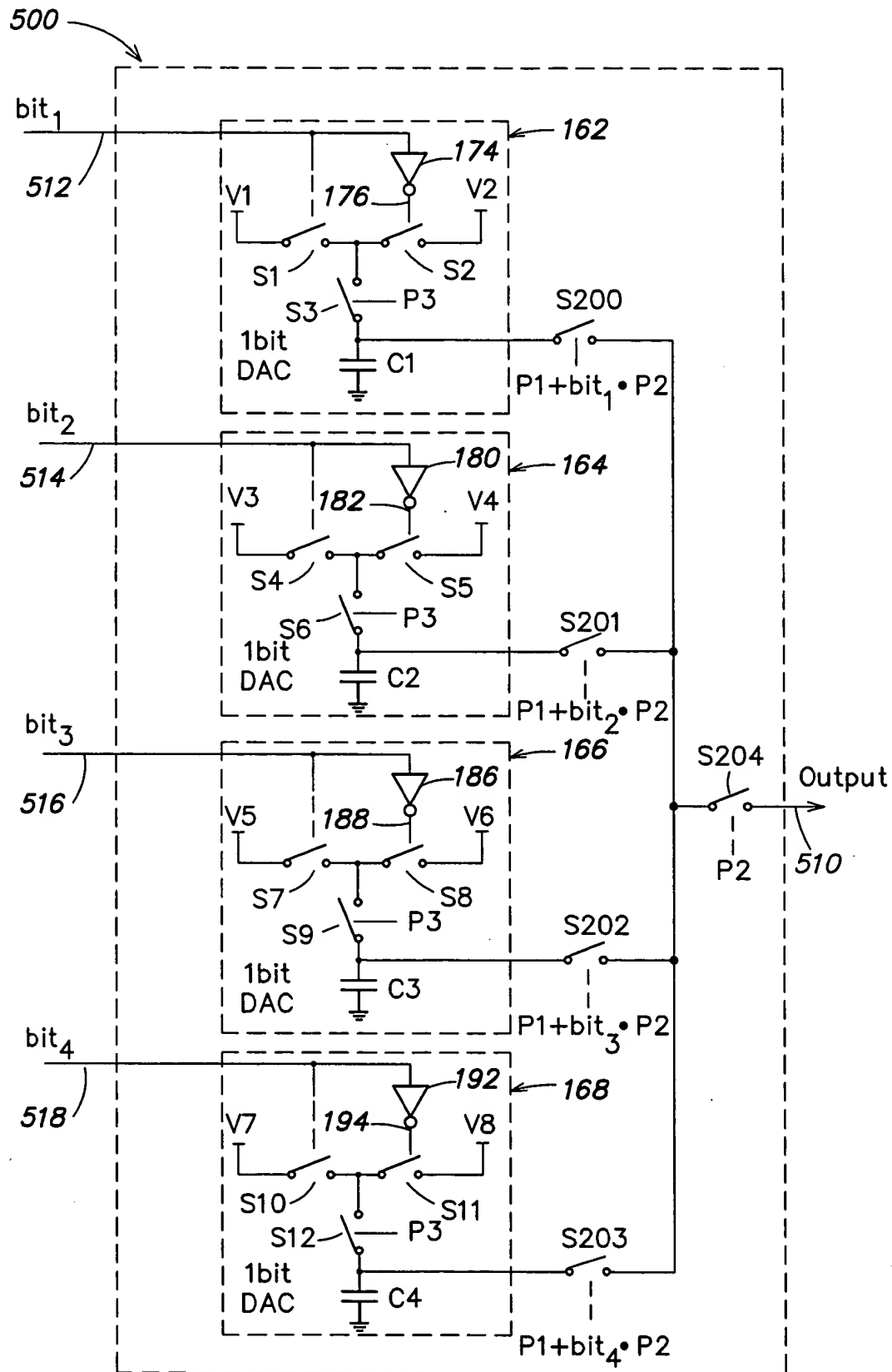


FIG. 31

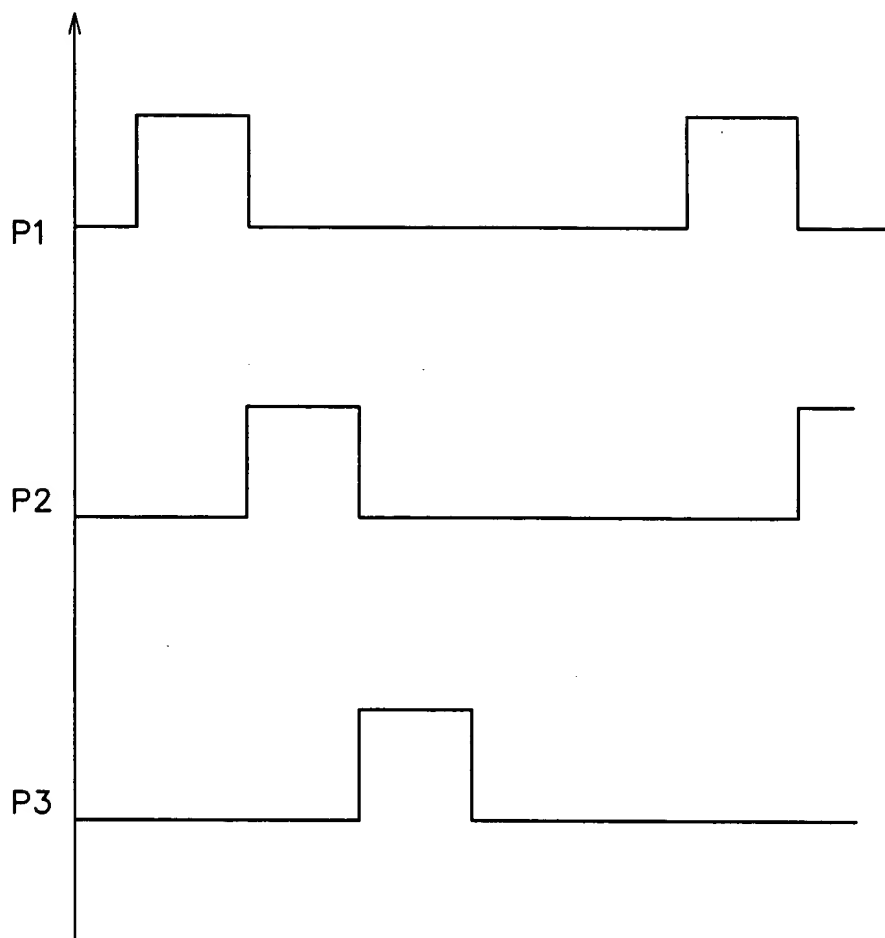
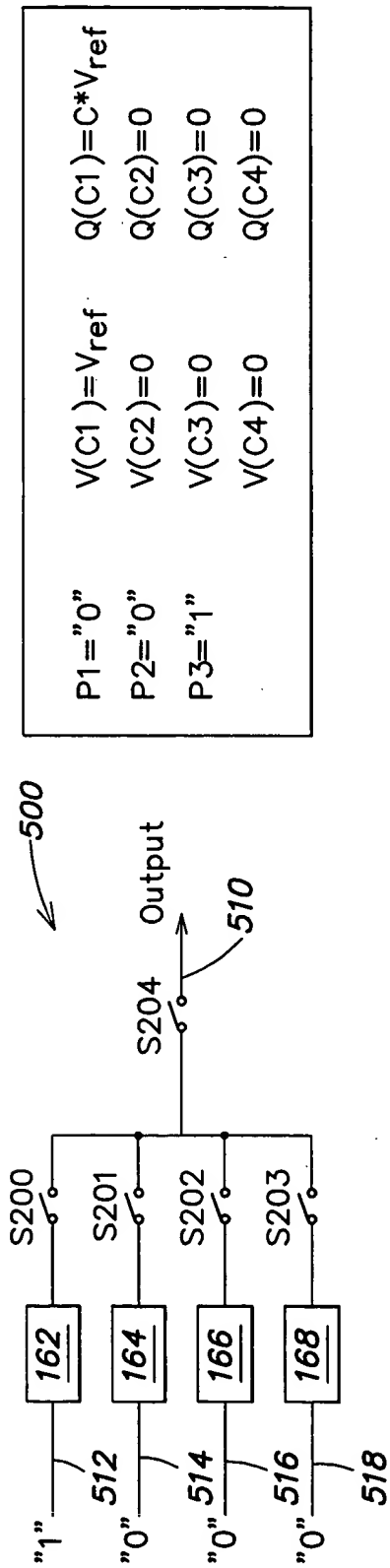
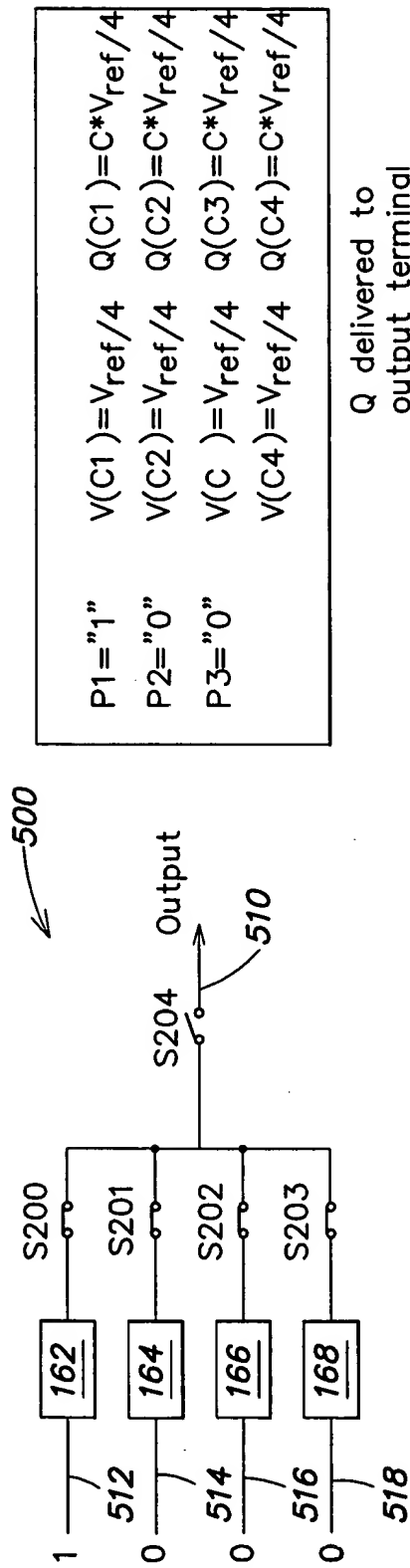


FIG. 32



P1="0"	$V(C1)=V_{ref}$	$Q(C1)=C \cdot V_{ref}$
P2="0"	$V(C2)=0$	$Q(C2)=0$
P3="1"	$V(C3)=0$	$Q(C3)=0$
	$V(C4)=0$	$Q(C4)=0$



P1="1"	$V(C1)=V_{ref}/4$	$Q(C1)=C \cdot V_{ref}/4$
P2="0"	$V(C2)=V_{ref}/4$	$Q(C2)=C \cdot V_{ref}/4$
P3="0"	$V(C3)=V_{ref}/4$	$Q(C3)=C \cdot V_{ref}/4$
	$V(C4)=V_{ref}/4$	$Q(C4)=C \cdot V_{ref}/4$

Q delivered to
output terminal
is $Q(C1)=C \cdot V_{ref}/4$

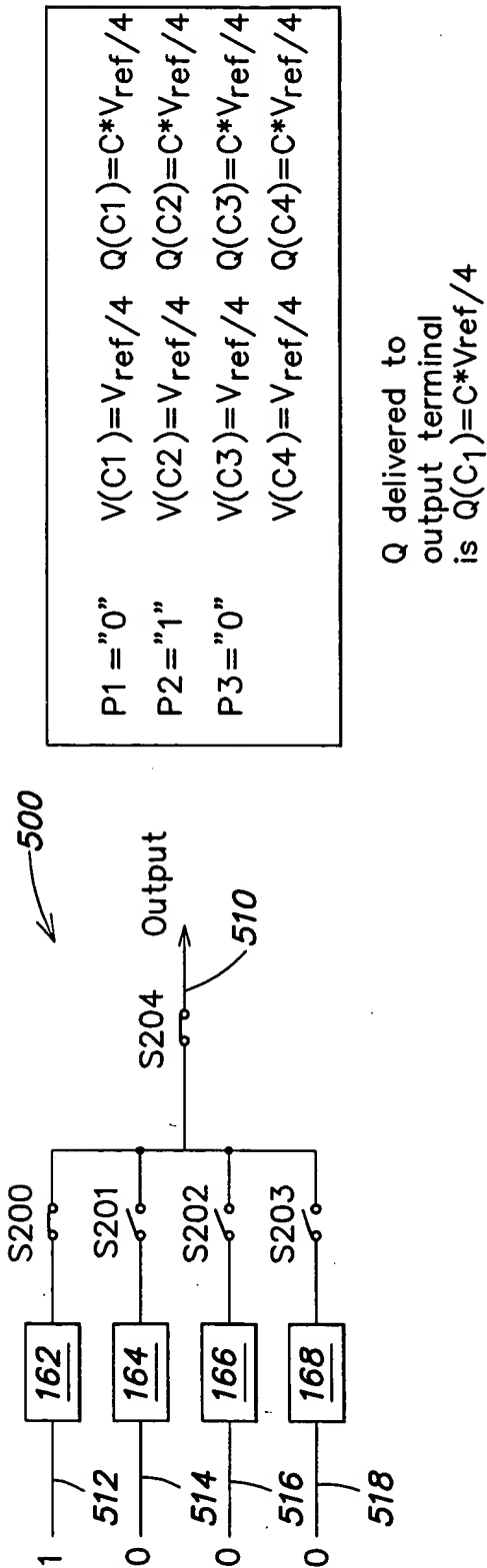
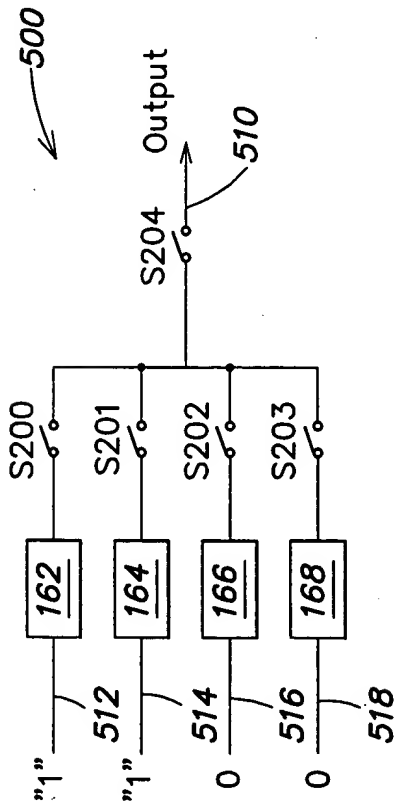
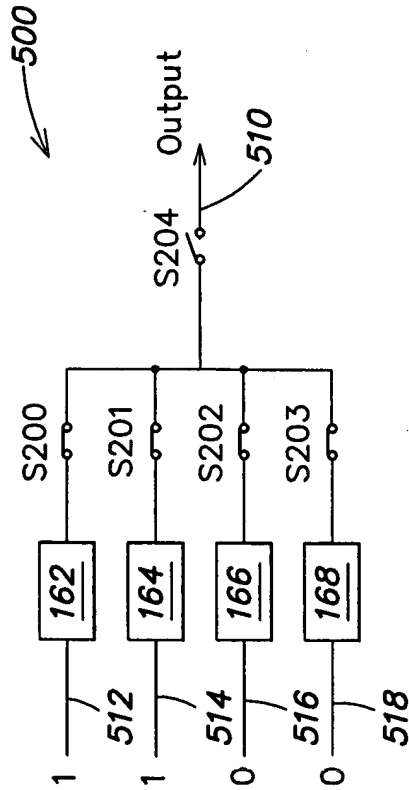


FIG. 33C



P1 = "0"	$V(C1) = V_{ref}$	$Q(C1) = C \cdot V_{ref}$
P2 = "0"	$V(C2) = V_{ref}$	$Q(C2) = C \cdot V_{ref}$
P3 = "1"	$V(C3) = 0$	$Q(C3) = 0$
	$V(C4) = 0$	$Q(C4) = 0$

FIG. 34A



P1 = "1"	$V(C1) = V_{ref}/2$	$Q(C1) = V_{ref}/2$
P2 = "0"	$V(C2) = V_{ref}/2$	$Q(C2) = V_{ref}/2$
P3 = "0"	$V(C3) = V_{ref}/2$	$Q(C3) = V_{ref}/2$
	$V(C4) = V_{ref}/2$	$Q(C4) = V_{ref}/2$

Q delivered to output terminal
is $Q(C1) + Q(C2) = C \cdot V_{ref}/2 + C \cdot V_{ref}/2 = C \cdot V_{ref}$

FIG. 34B

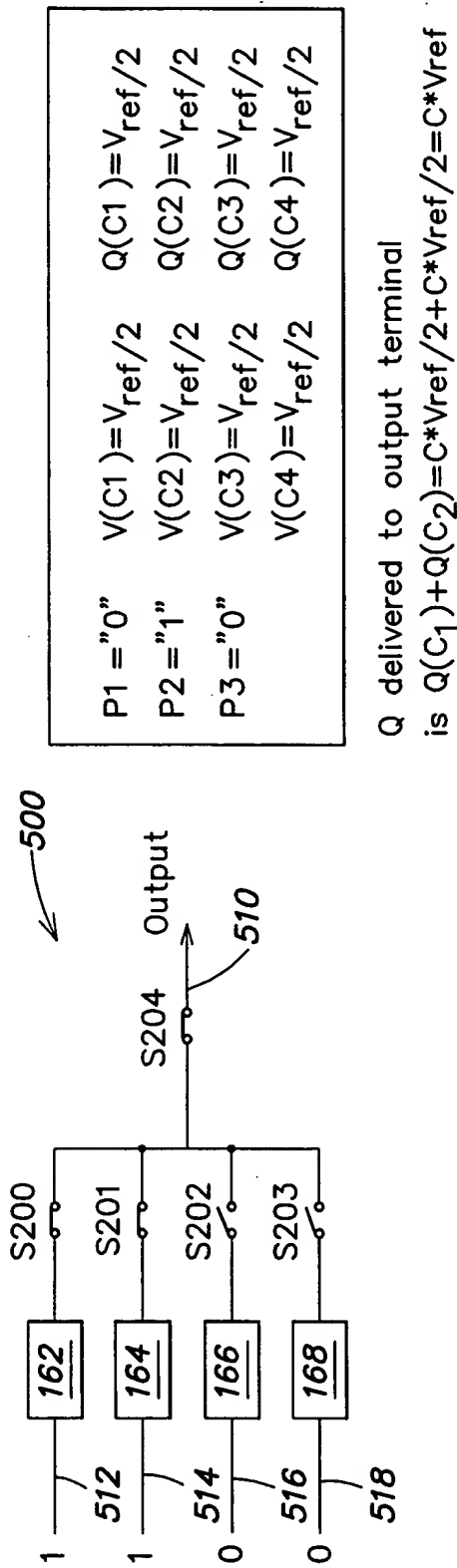


FIG. 34C

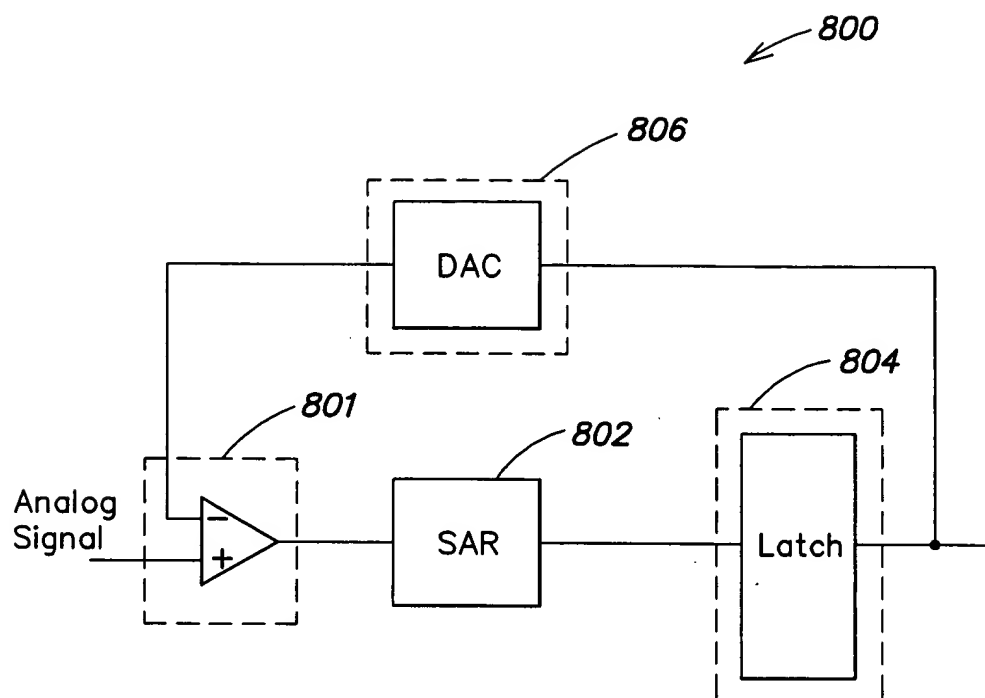


FIG. 35